HST-SE581

SERVICE MANUAL

AEP Model
E Model
Australian Model

- This set is the tuner deck and amplifier section in SEN-T481.

Manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ◻◻ and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

Tape deck	Model Name Using Similar Mechanism	HST-471
Section	Tape Transport Mechanism Type	TCM-220WR2

SPECIFICATIONS

Tuner section

FM stereo, FM / AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM leadantena
Antenna terminals	75 Ω unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuningrange
- European model: 531 – 1,602 kHz
- Other models: 531 – 1,602 kHz (with the interval set at 9 kHz)
  530 – 1,710 kHz (with the interval set at 10kHz)
- Antenna: AM loop antenna, outdoor antenna terminals
- Intermediate frequency: 450 kHz

Amplifier section

European models:

(FRONT)
DIN power output: 90 + 90 W
(at rear / center / woofer off at 1 kHz, 8 Ω)

Continuous RMS power output
110 + 110 W
(at rear / center / woofer off at 1 kHz, 10% THD, 8 Ω)
70 W / ch
(at SURROUND ON at 1 kHz, 10% THD, 8 Ω)

(REAR) 40 W
(at front / center / woofer off at 1 kHz, 8 Ω)
(CENTER) 40 W
(at front / rear / woofer off at 1 kHz, 8 Ω)
(WOOFER) 70 W
(at front / rear / center off at 40 Hz, 4 Ω)

Other models:

Peak music power output
1,600 W (total)
(FRONT)
Continuous RMS power output
90 + 90 W
(at rear / center / woofer off at 1 kHz, 10% THD, 8 Ω)
(REAR) 40 W
(at front / center / woofer off at 1 kHz, 8 Ω)
(CENTER) 40 W
(at front / rear woofer off at 1 kHz, 8 Ω)
(WOOFER) 70 W
(at front /rear/ center off at 40 Hz, 4 Ω)

Inputs
- PHONO (phono jacks): sensitivity 2.5 mV, impedance 50 kΩ
- CD (phono jacks): sensitivity 400 mV, impedance 50 kΩ
- VIDEO1, 2 (phono jacks): sensitivity 250 mV, impedance 50 kΩ

— Continued on next page —

CASSETTE DECK RECEIVER

MICROFILM

SONY®

Outputs
VIDEO1 (phono jacks):
voltage 250 mV, impedance 1 kΩ
PHONES (stereo phone jack):
accepts low and high impedence headphones

Tape deck section

Track method 4-track, 2-channnel stereo

Frequency response
With DOLBY NR set to OFF
TYPE-I tape: 60-13,000 Hz, ± 3 dB
TYPE-II tape: 60-14,000 Hz, ± 3 dB

General

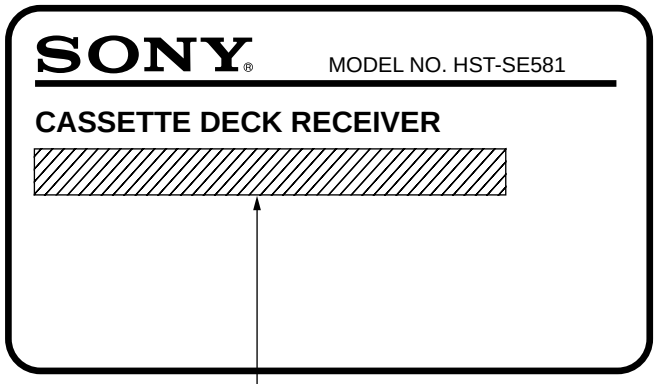
Power requirements
European, Singapore and Malaysian models:
230 V AC, 50 / 60 Hz
Australian model: 230 V AC, 50 Hz
E model: 110 – 120 V AC or
220 – 240 V AC, 50 / 60 Hz
(selectable)
Power consumption 220 W
Dimensions (w/h/d) Approx. 430 × 330 × 355 mm
Mass Approx.10.5 kg
Supplied accessories: Remote RM-U581 (1)
Batteries (2)
AM loop antenna (1)
FM lead antenna (1)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION

— Model Number Label —

MODEL IDENTIFICATION



AEP, Singapore,
Malaysia : AC 230V ~ 50/60Hz 220W
Australian : AC 230V ~ 50Hz 220W
E : AC 110-120V, 220-240V selectable
~ 50/60Hz 220W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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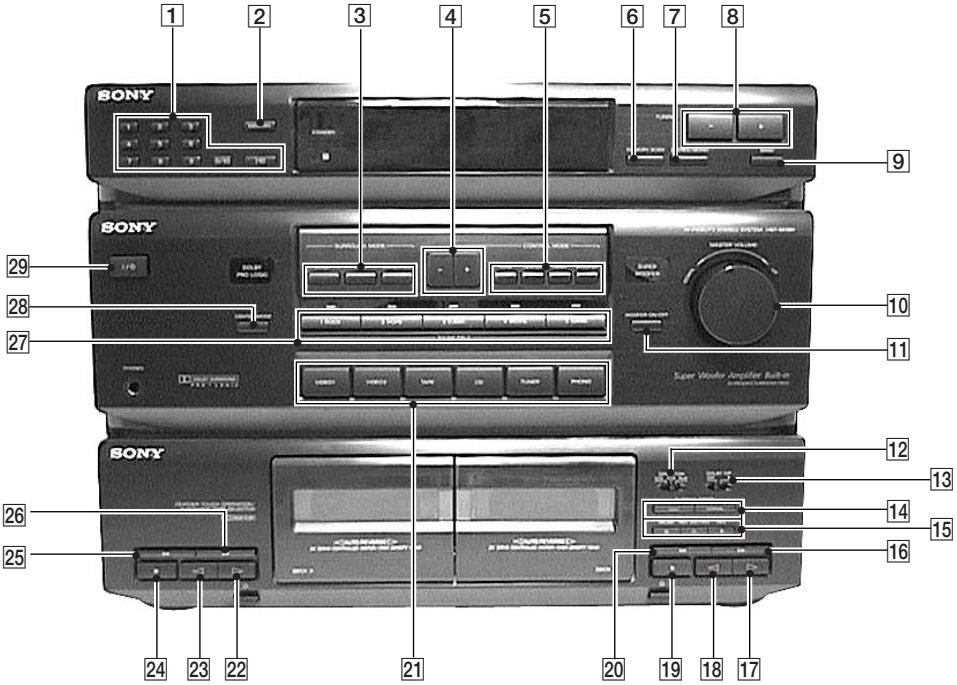
SECTION 1
GENERAL

LOCATION AND FUNCTION OF CONTROLS
[FRONT PANEL]



1 10 KEY
2 MEMORY
3 SURROUND MODE (DOLBY/HALL/SIMULATED)
4 CONTROL MODE (–/+)
5 CONTROL MODE (TONE/CENTER/REAR/WOOFER)
6 MEMORY SCAN
7 STEREO/MONO
8 TUNING (–/+)
9 BAND
10 MASTER VOLUME
11 WOOFER ON/OFF
12 DIRECTION (DECK B)
13 DOLBY NR (DECK B)
14 DUBBING SPEED (HIGH/NORMAL) (DECK B)
15 REC (PAUSE/REC MUTING/REC) (DECK B)
16 ▶▶ (DECK B)
17 ▷ (DECK B)
18 ◁ (DECK B)
19 ■ (DECK B)
20 ◀◀ (DECK B)
21 VIDEO 1/VIDEO 2/TAPE/CD/TUNER/PHONO
22 ▷ (DECK A)
23 ◁ (DECK A)
24 ■ (DECK A)
25 ◀◀ (DECK A)
26 ▶▶ (DECK A)
27 SOUND FIELD
(1 ROCK/2 POPS/3 CLASSIC/4 MOVIE/5 GAME)
28 CENTER MODE
29 POWER I/⏻

[REAR PANEL]

Photo : AEP Model

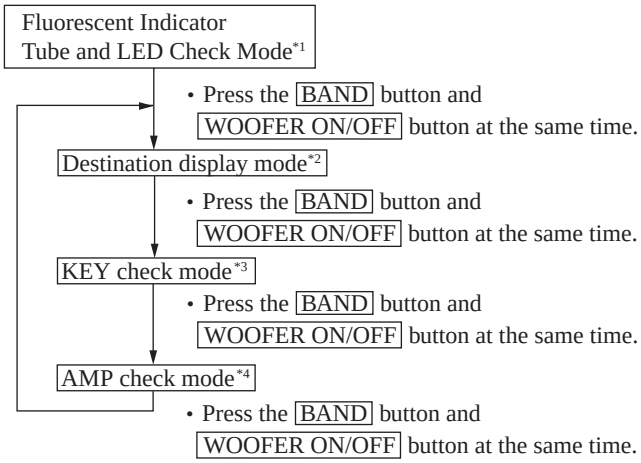
30 ANTENNA terminal
31 PHONO jack
32 CD/VIDEO 1/VIDEO 2 jack
33 SPEAKER terminal

SECTION 2
TEST MODE

[Fluorescent Indicator Tube, LED All Lit, and Key Check Mode]

1. When the plug is inserted into the outlet while pressing the MEMORY SCAN button, the fluorescent indicator tube and LED will light up completely.
2. The mode changes as follows each time the BAND button and WOOFER ON/OFF button are pressed together after 1.

Sequence of Service Modes


Fluorescent Indicator Tube and LED Check Mode*1
• Press the BAND button and WOOFER ON/OFF button at the same time.
Destination display mode*2
• Press the BAND button and WOOFER ON/OFF button at the same time.
KEY check mode*3
• Press the BAND button and WOOFER ON/OFF button at the same time.
AMP check mode*4
• Press the BAND button and WOOFER ON/OFF button at the same time.

*1 For checking if the fluorescent indicator tube and LED are lit completely

*2 Model name and destination are shown in the destination display mode.

*3 When the KEY check mode is set, "KEY 0"is displayed on the fluorescent indicator tube. Each press of the button is counted. (This excludes the I/⏻ button)
Buttons pressed once will not be counted when pressed again.
When all keys are pressed, "KEY END" appears.

*4 When the AMP check mode is set, "AMP" is displayed on the fluorescent indicator tube.
Select any desired mode by pressing the TONE or CENTER or REAR or WOOFER button. After a mode is selected, press any of the DOLBY or HALL or SIMULATED button as shown below to change the amplification level.

	DOLBY	HALL	SIMULATED
TONE	–10 dB	0 dB	+10 dB
CENTER	–15 dB	0 dB	+6 dB
REAR	–15 dB	0 dB	+6 dB
WOOFER	–24 dB	0 dB	+8 dB

3. To exit the test mode, press the I/⏻ button, or press the ■ (STOP) button of the deck A during the modes except the key check mode.

[TC test mode]

1. Insert a playback tape into the deck A and a record tape into the deck B.
2. While the power cable is disconnected from AC outlet, press the I/⏻ switch.
3. While pressing the DUBBING SPEED HIGH button, connect the power cable to the AC outlet.

Operation

Audio dubbing from deck A to Deck B starts.
When the ◀◀ button or the ▶▶ button (during reverse recording) of the deck B is pressed during dubbing, the tape returns to the recording start point and playback starts.
When the DUBBING SPEED HIGH button is pressed during dubbing, the high speed dubbing is performed.

[TC aging mode]

1. Turn on the main power.
2. Press the TAPE button. Insert a playback tape into the deck A and a record tape into the deck B.
3. Set the DIRECTION switch to ⇄.
4. Press the WOOFER and ■ (STOP) button of the deck A at the same time to enter the aging mode.

Operation

Deck A rewinds (REW) up to the tape top,
Deck B rewinds (REW) up to the tape top,
Deck A plays back (FWD) for one minute, then stops (STOP) momentarily,
Deck A plays back (FWD) for three minutes,
Deck A runs in fast forward (F. FWD) up to tape end,
Deck A plays back (REV) for one minute, then stops (STOP) momentarily,
Deck A plays back (REV) for three minutes,
Deck A runs in fast reverse (REV) up to tape top,
Deck B plays back (FWD) for one minute, then stops (PAUSE) momentarily,
Deck B records (FWD. RECORD) for three minutes,
Deck B runs in fast forward (F. FWD) up to tape end,
Deck B plays back (REV) for one minute, then stops (PAUSE) momentarily,
Deck B records (REV. RECORD) for three minutes,
Deck B runs in fast reverse (REV) up to tape end,
<Repeat>

These operations are repeated.

5. How to exit the TC aging mode.
Press any keys related to the TC deck.

[Backup Clear Mode]

1. While pressing the DOLBY key, connect the power cable to the AC outlet. All preset data is cleared.

SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   - record/playback head
   - erase head
   - capstan
   - pinch roller
   - rubber belts
   - idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	36 to 61g•cm (0.50 to 0.84 oz•inch)
Forward Back Tension	CQ-102C	2 to 6g•cm (0.026 to 0.082 oz•inch)
Reverse	CQ-102RC	36 to 61g•cm (0.50 to 0.84 oz•inch)
Reverse Back Tension	CQ-102RC	2 to 6g•cm (0.026 to 0.082 oz•inch)
FF, REW	CQ-201B	61 to 143g•cm (0.85 to 1.98 oz•inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100 g (3.53 oz•inch)
Reverse	CQ-403R	more than 100 g (3.53 oz•inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

DECK SECTION | 0 dB=0.775V

1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-ch.
7. Switches and controls should be set as follows unless otherwise specified.
8. Set to test mode. (While pressing the DUBBING SPEED HIGH button, insert the AC outlet.)

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0dB	Level Adjustment

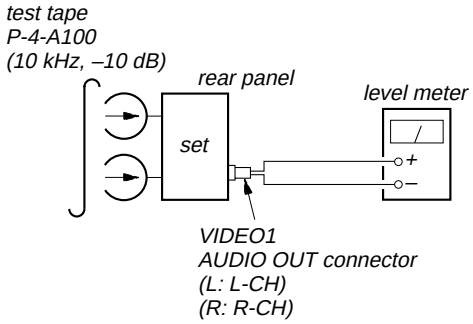
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

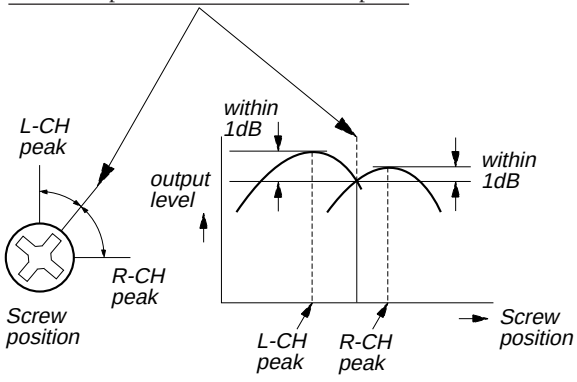
Note : Perform this adjustments for both decks. Remove the covers of cassette holders.

Procedure:

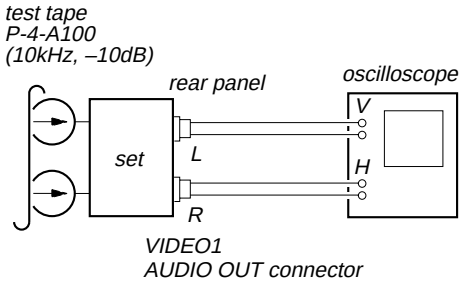
1. Mode: Playback (FWD)

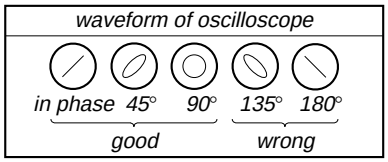


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



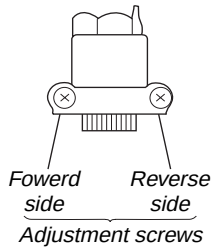
3. Mode: Playback (FWD)





4. Repeat steps 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location: Record/Playback Head (Deck A and B).

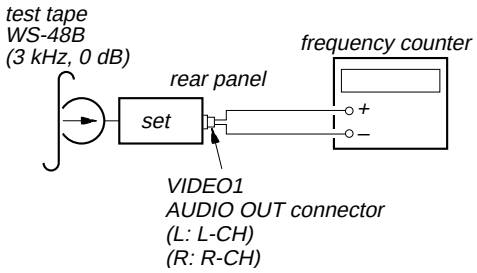


Tape Speed Adjustment DECK A

Note: Start the Tape Speed adjustment as below after setting to the test mode.

Procedure:

Mode: Playback (FWD)



1. Insert the WS-48B into the deck A and the blank tape into the deck B.
2. Press the REC button and ▷ button on the deck B. Then the deck B is at recording mode.
3. Set the deck A to playback mode.
4. Press the DUBBING SPEED HIGH button in playback mode. Then at high speed mode.
5. Adjust RV652 on the AUDIO board do that frequency counter reads 6,000 ± 180 Hz.
6. Press the DUBBING SPEED NORMAL button in playback mode.
   Then at normal speed mode.
7. Adjust RV651 on the AUDIO board so that frequency counter reads 3,000 ± 90 Hz.
8. Frequency difference between deck A and deck B the beginning of the tape should be within ± 1.5 %.

Adjustment Location: AUDIO board

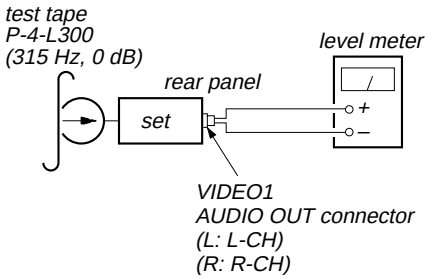
Sample Value of Wow and flutter

W.RMS (JIS) within 0.3%
(test tape: WS-48B)

Playback level Adjustment DECK A DECK B

Procedure:

Mode: Playback (FWD)



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

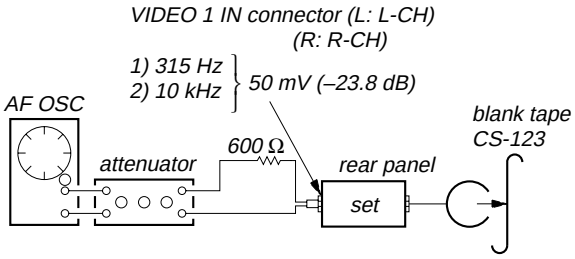
VIDEO1 AUDIO OUT PB level: 301.5 to 338.3 mV (–8.2 to –7.2 dB) level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

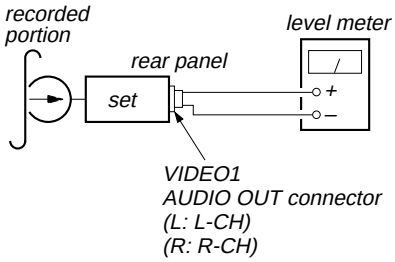
Record bias Current Adjustment DECK B

Procedure:

1. Mode: Record



2. Mode: Playback



Confirm playback the signal recorded in step 1 become adjustable limits as follows.
If these levels do not adjustable limits, adjustment the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.

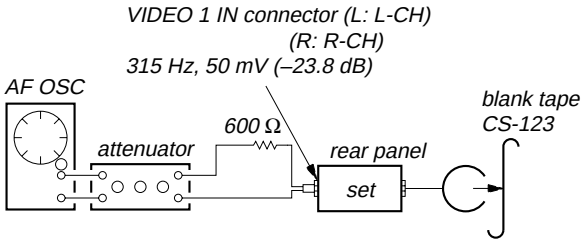
Adjustable limits: Playback output of 315 Hz to playback output of 10 kHz: ±0.5 dB

Adjustment Location: AUDIO board

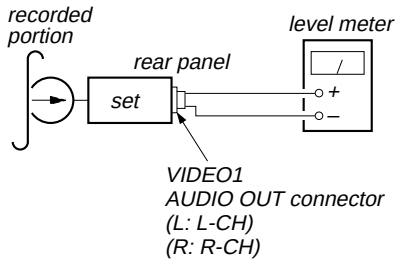
Record Level Adjustment DECK B

Procedure:

1. Mode: Record



2. Mode: Playback



Confirm playback the signal recorded in step 1 become adjustable limits as follows.
If these levels do not adjustable limits, adjustment the RV511 (L-CH) and RV521 (R-CH) on the main board to repeat steps 1 and 2.

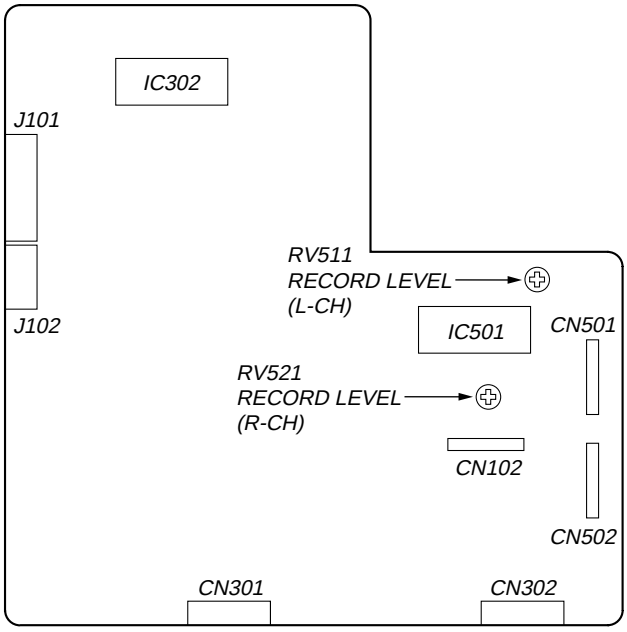
Adjustable limits:

VIDEO 1 AUDIO OUT level : 47.3 to 53.1 mV
(–24.3 to –23.3 dB)

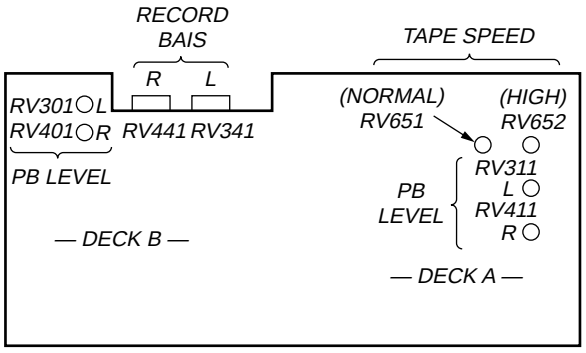
Adjustment Location: MAIN board

Adjustment Location

[MAIN BOARD] (Component Side)

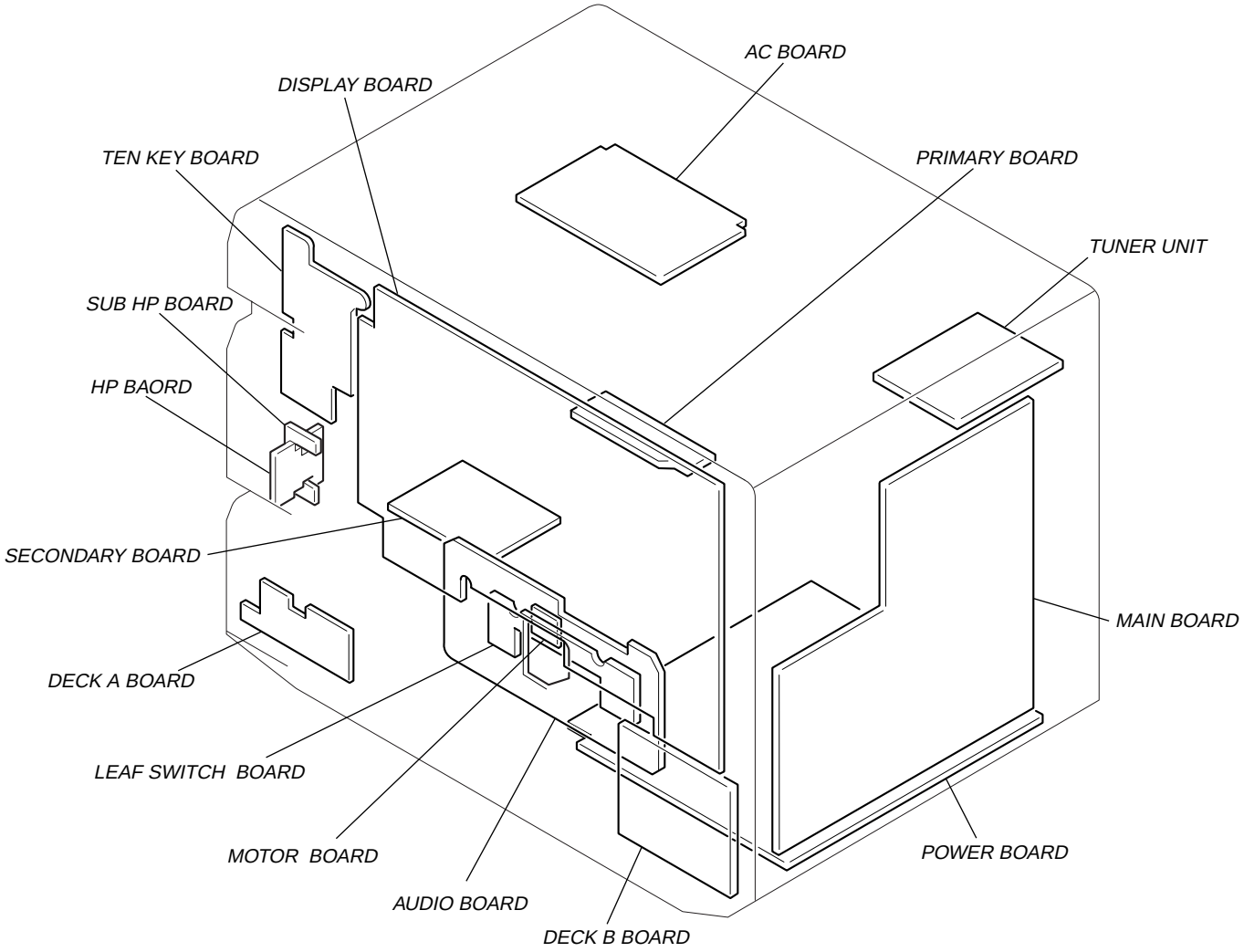


[AUDIO BOARD] (Conductor Side)



SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS. (In addition to this necessary note is printed in each block.)

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  - : FM
  - : VIDEO/MD
  - : PB (DECK A)
  - : PB (DECK B)
  - : REC (DECK B)
  - : CD
  - : VIDEO-1 AUDIO
  - : VIDEO-2 AUDIO
- Abbreviation
  - AUS : Australian model.
  - MY : Malaysia model.
  - SP : Singapore model.

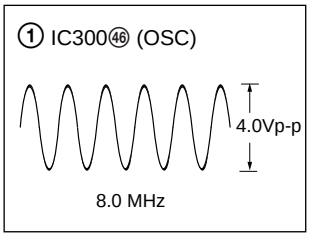
Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.

• Waveforms

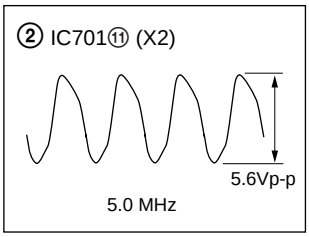
– MAIN SECTION –

① IC300㊻ (OSC)



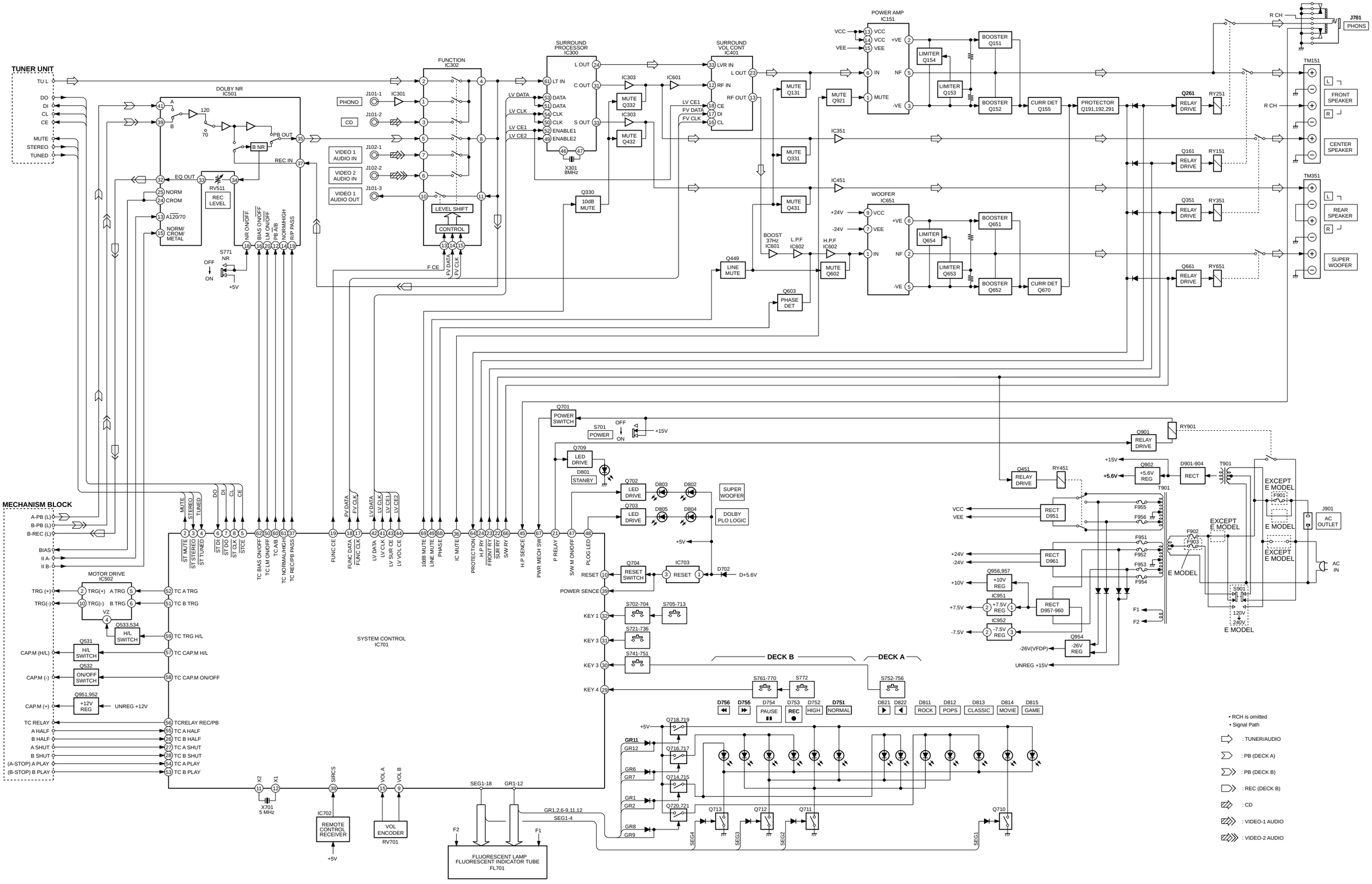
– DISPLAY SECTION –

② IC701⑪ (X2)



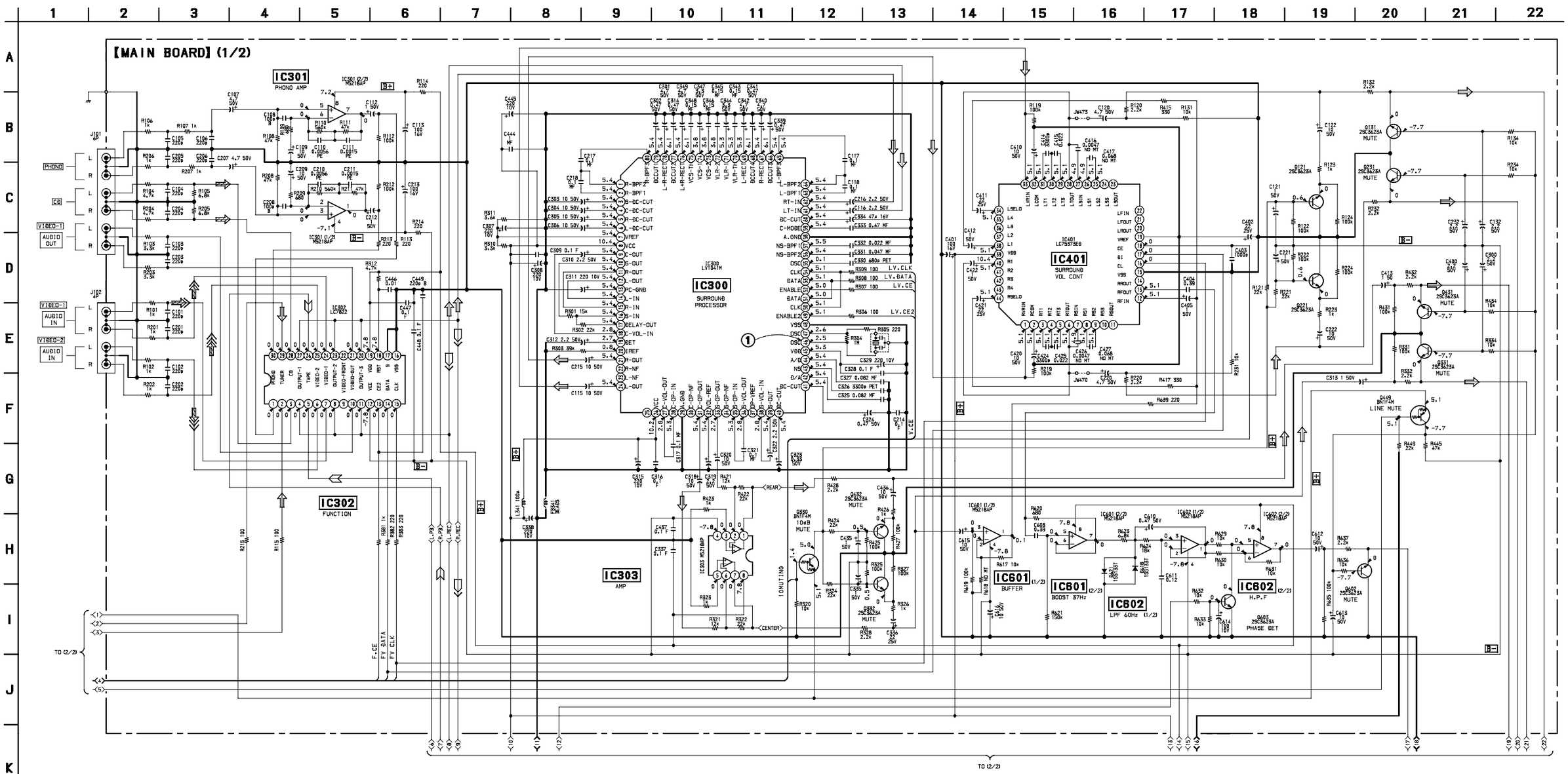
HST-SE581

5-2. BLOCK DIAGRAM



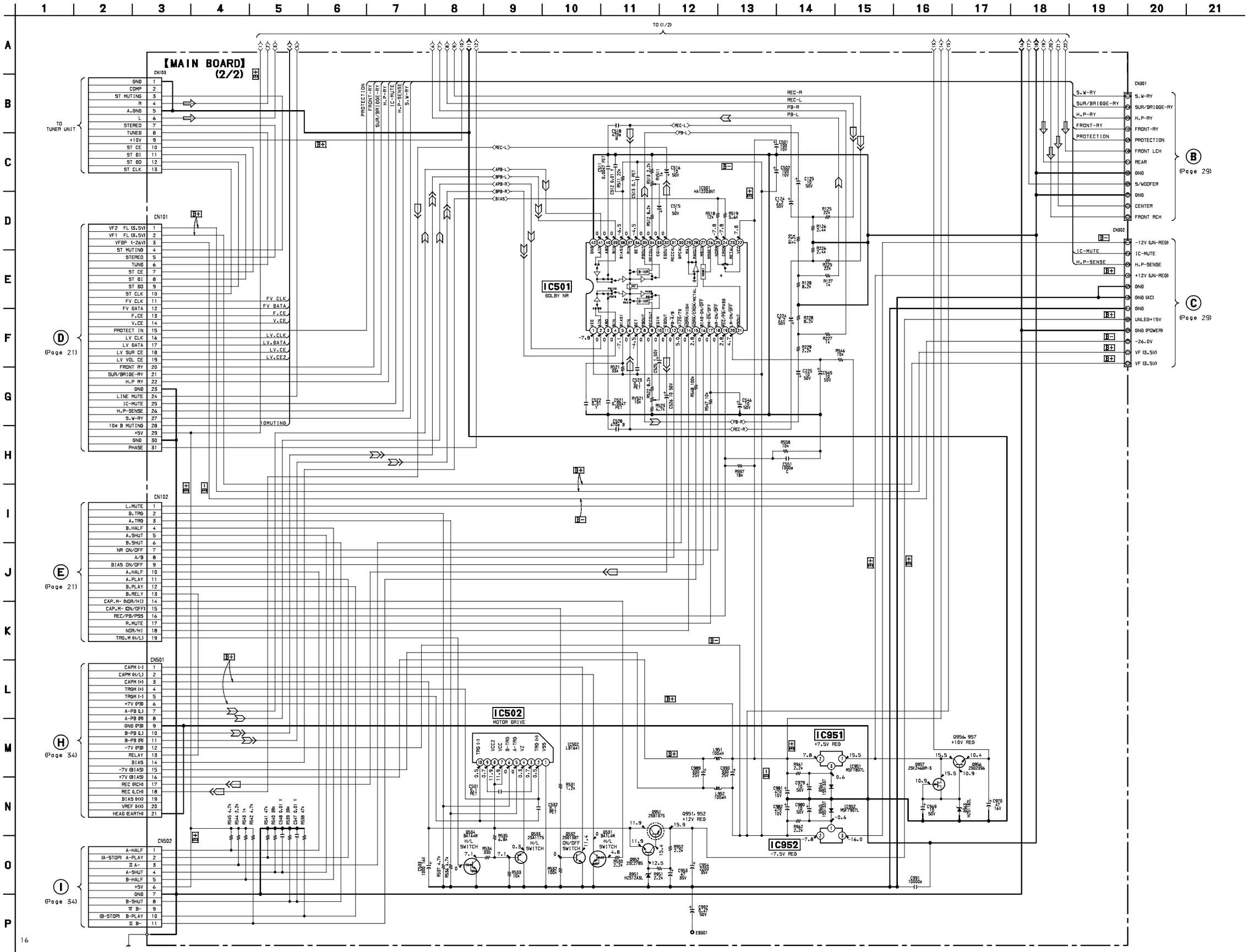
5-3. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —

• See page 10 for Waveforms. • See page 39 for IC Block Diagrams.



5-4. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) —

• See page 39 for IC Block Diagrams.

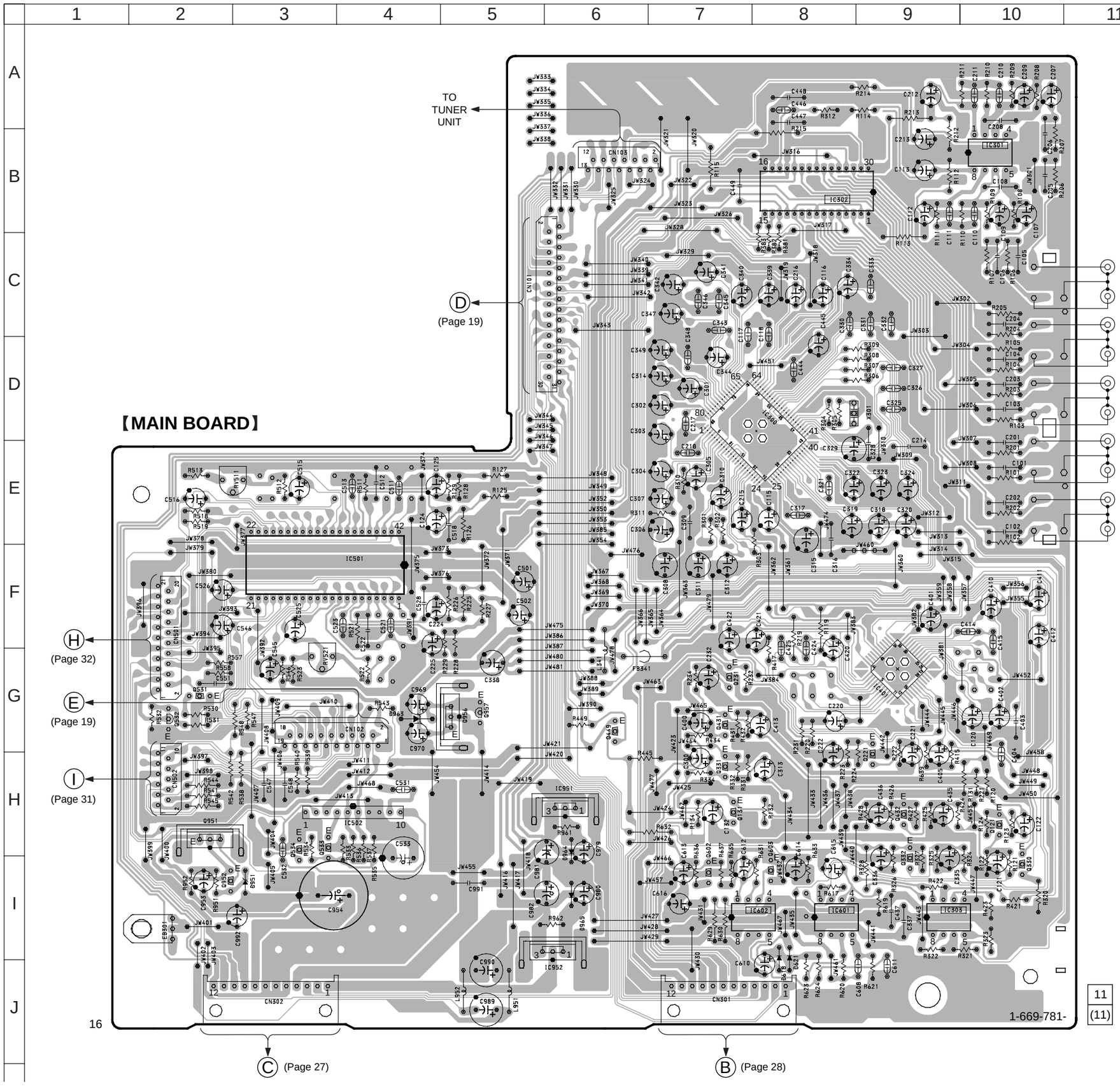


5-5. PRINTED WIRING BOARDS — MAIN SECTION —

• See page 9 circuit boards location

• **Semiconductor Location**

Ref. No.	Location
D618	J-8
D621	J-8
D951	I-3
D963	G-4
D964	H-6
D965	I-6
IC300	D-8
IC301	B-10
IC302	B-8
IC303	I-10
IC401	G-9
IC501	F-3
IC502	H-4
IC601	I-8
IC602	I-8
IC951	H-6
IC952	J-6
Q121	H-10
Q131	H-7
Q221	H-9
Q231	G-7
Q330	I-10
Q331	H-7
Q332	I-9
Q431	G-7
Q432	H-9
Q449	G-6
Q531	G-2
Q532	G-2
Q533	H-3
Q534	H-3
Q602	I-7
Q603	I-8
Q951	H-2
Q952	I-2
Q956	G-5
Q957	G-5

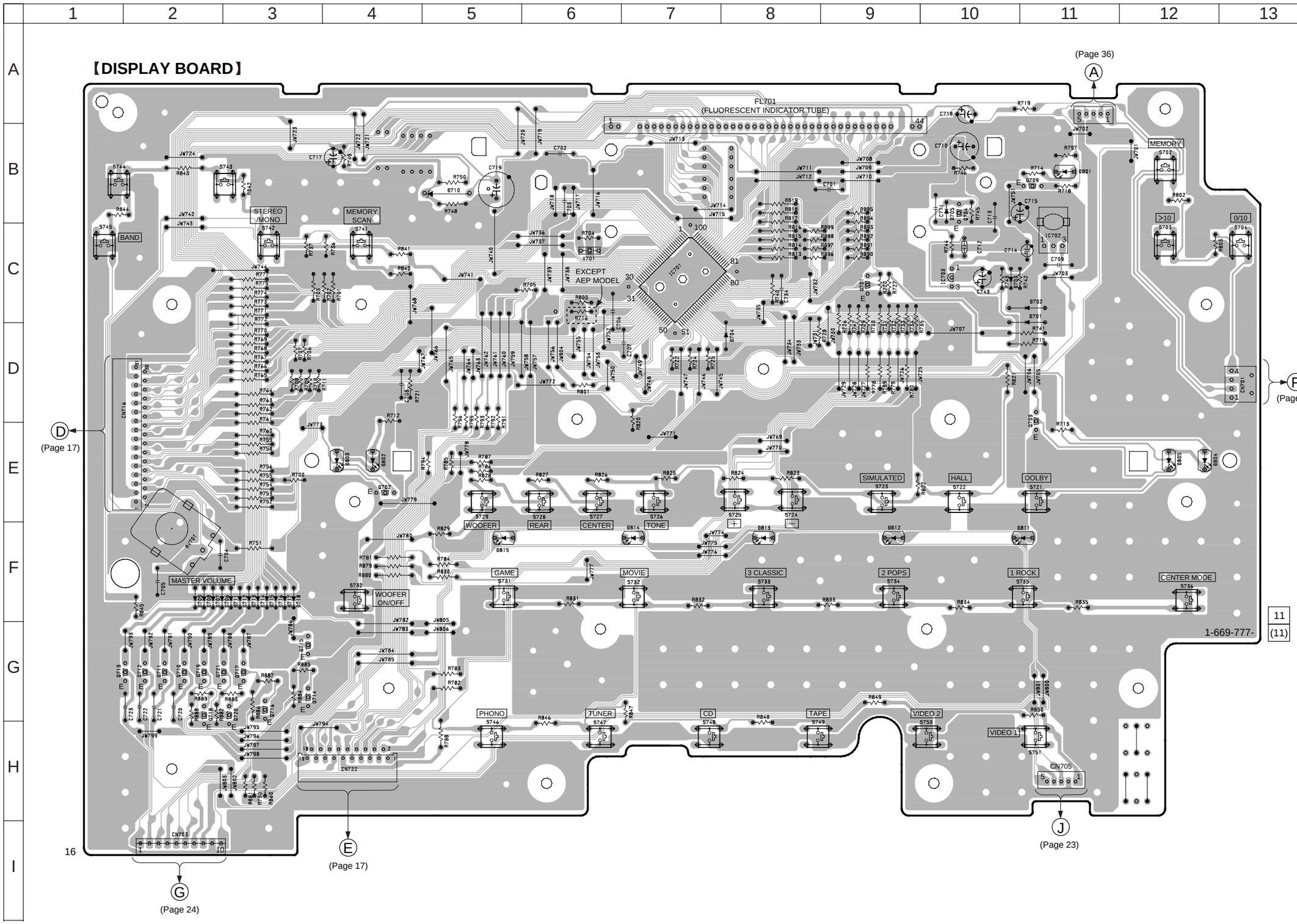


5-6. PRINTED WIRING BOARDS — DISPLAY SECTION —

• See page 9 circuit boards location

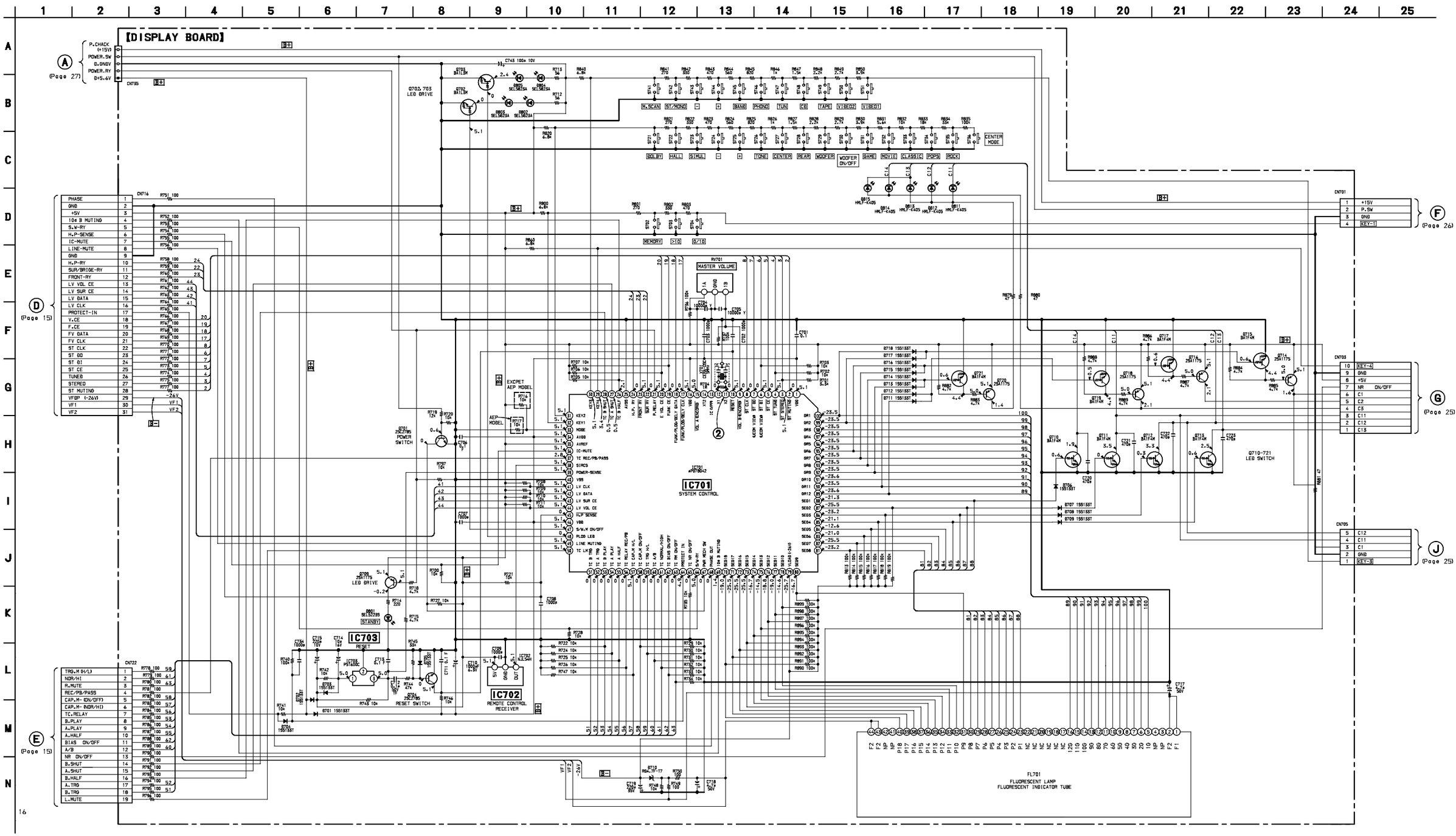
• **Semiconductor Location**

Ref. No.	Location
D701	C-11
D702	C-11
D703	C-10
D704	D-7
D705	B-10
D706	F-2
D707	F-2
D708	F-2
D709	F-2
D710	B-5
D711	F-3
D712	F-3
D713	F-3
D714	F-3
D715	F-3
D716	F-3
D717	F-3
D718	F-3
D801	B-11
D802	D-4
D803	D-4
D804	D-12
D805	D-12
D811	F-9
D812	F-11
D813	F-8
D814	F-7
D815	F-5
IC701	C-7
IC702	C-11
IC703	C-10
Q701	C-9
Q702	E-4
Q703	D-11
Q704	B-10
Q709	B-11
Q710	G-2
Q711	G-2
Q712	G-2
Q713	G-1
Q714	G-3
Q715	G-3
Q716	G-3
Q717	G-3
Q718	G-2
Q719	G-2
Q720	G-2
Q721	G-3



5-7. SCHEMATIC DIAGRAM — DISPLAY SECTION —

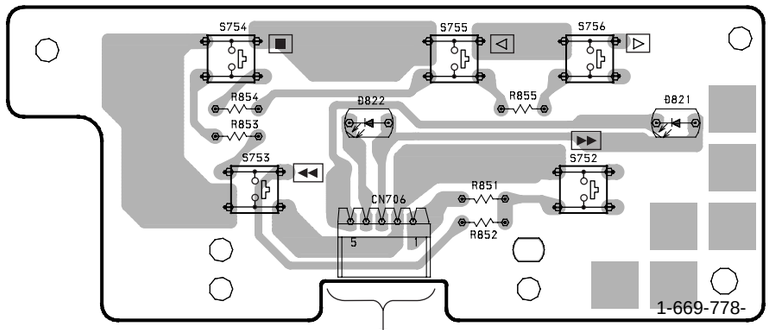
• See page 10 for Waveforms. • See page 41 for IC Pin Function.



5-8. PRINTED WIRING BOARDS — SW SECTION —

• See page 9 circuit boards location

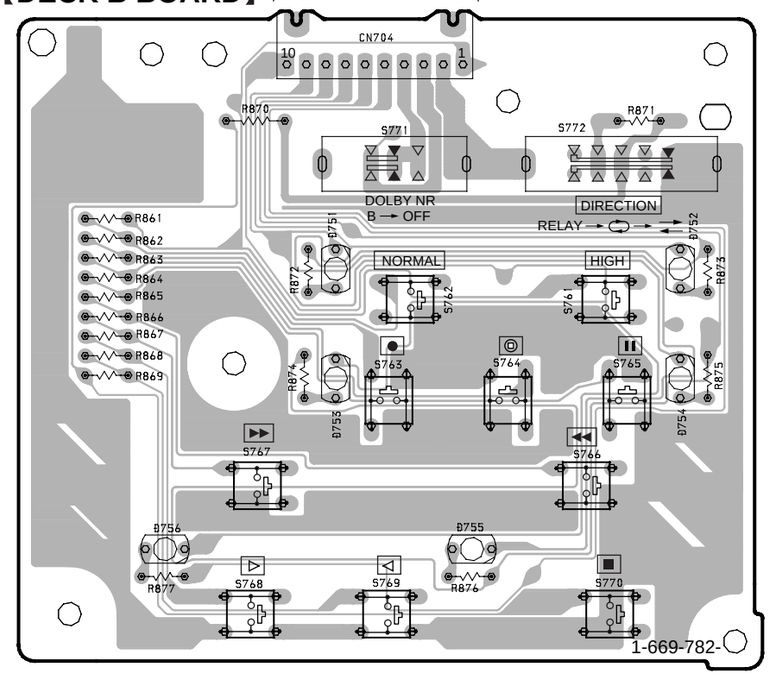
【DECK A BOARD】



(Page 20)

【DECK B BOARD】

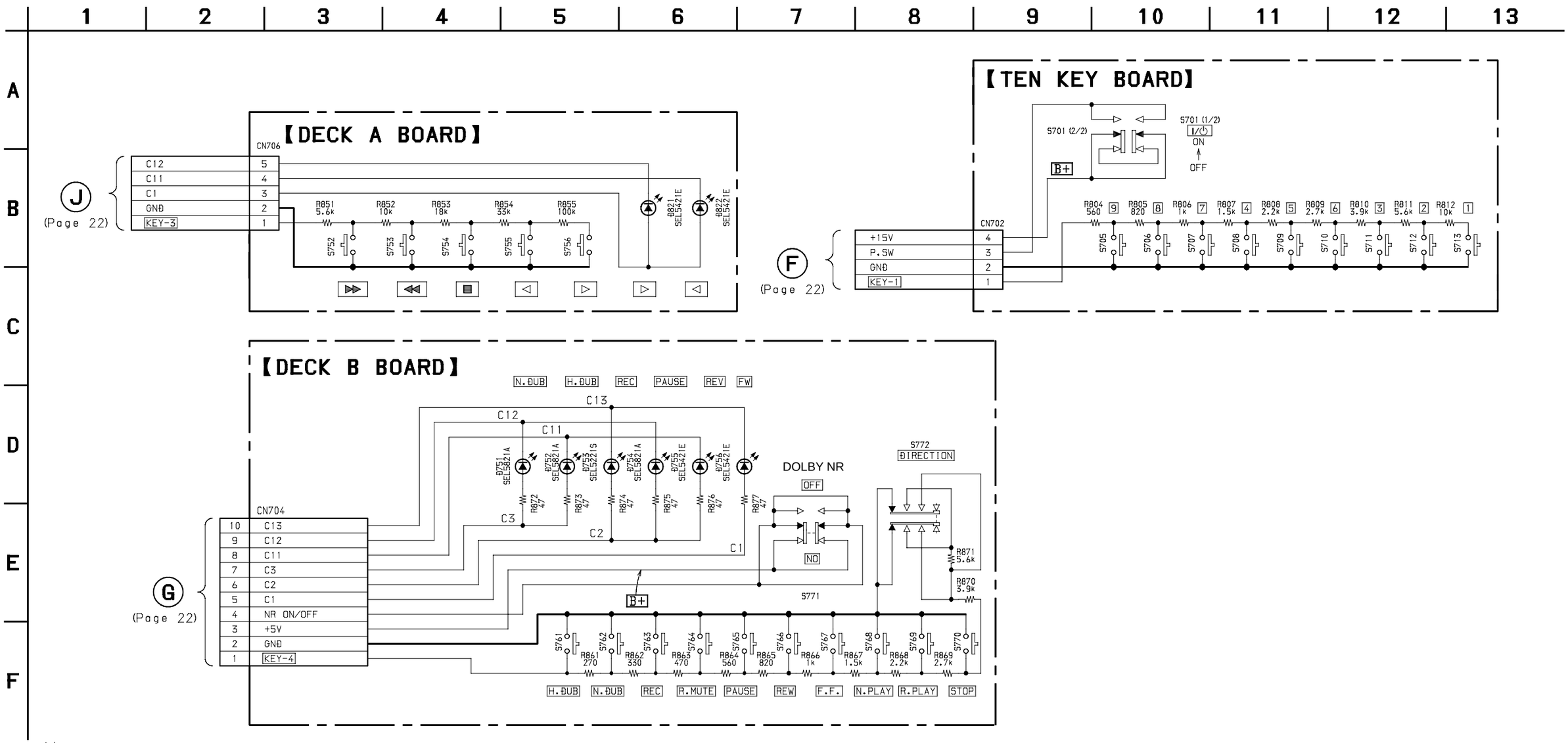
(Page 19)



(Page 20)

【TEN KEY BOARD】

5-9. SCHEMATIC DIAGRAM — SW SECTION —

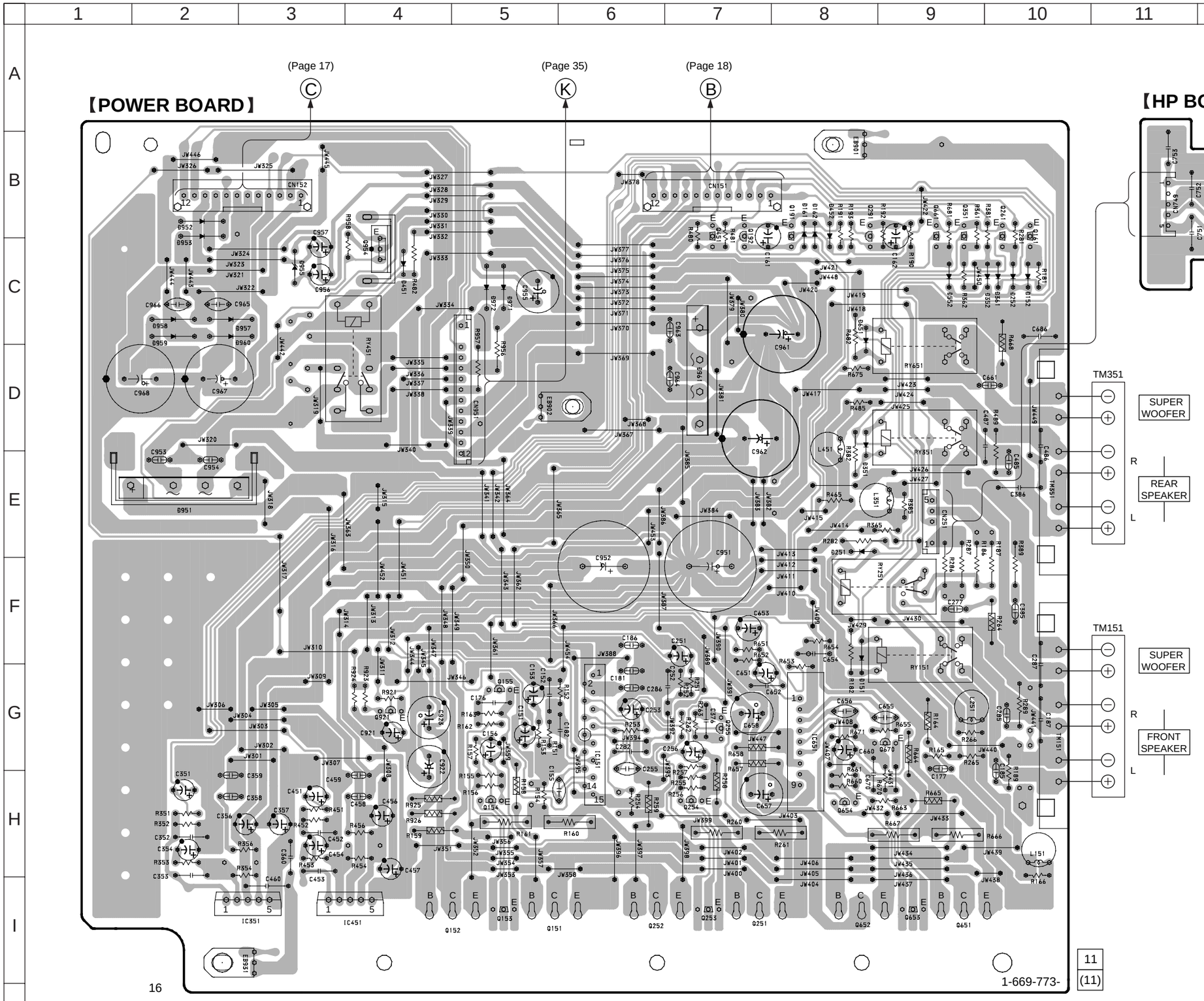


5-10. PRINTED WIRING BOARDS — POWER AMP SECTION —

• See page 9 circuit boards location

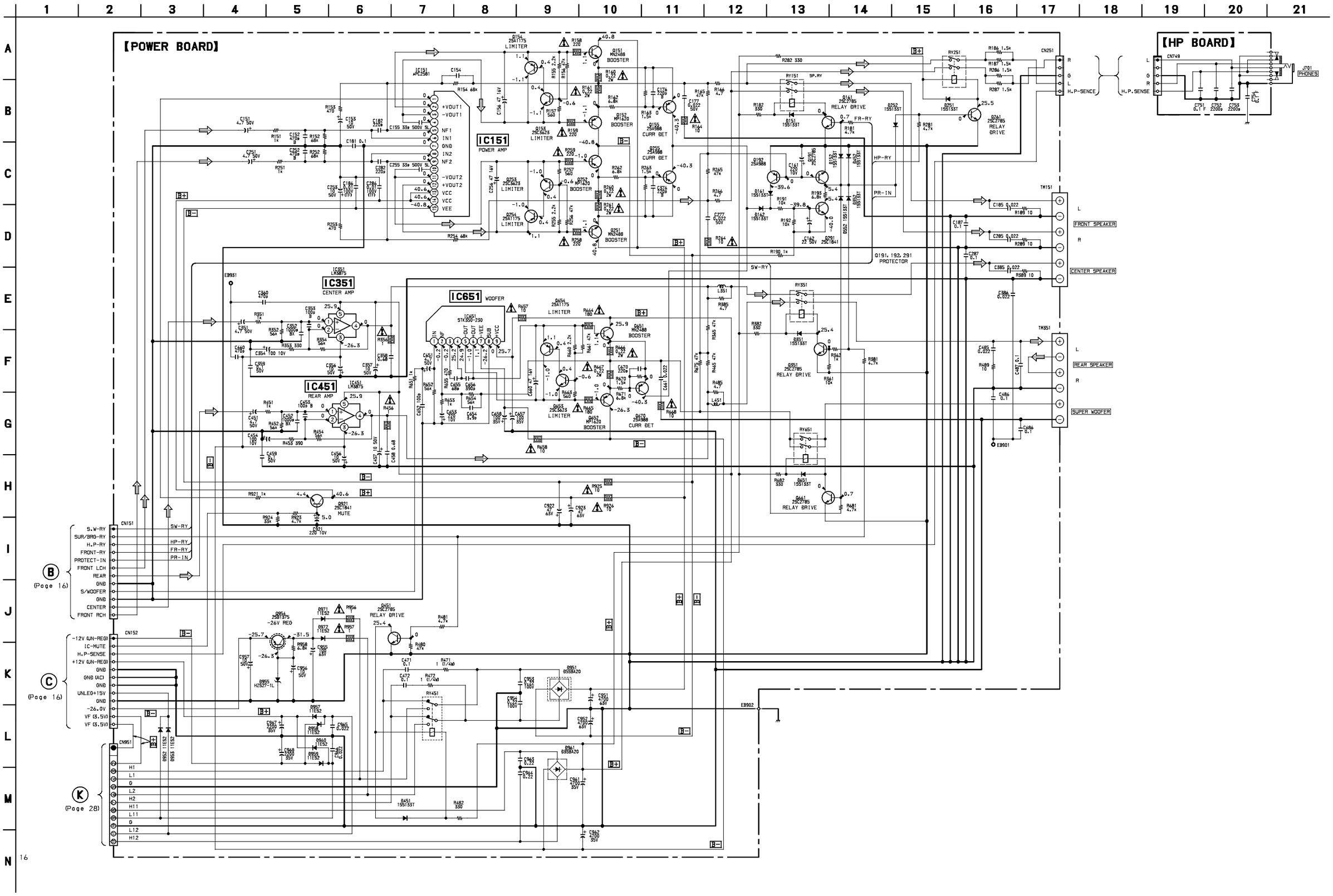
• **Semiconductor Location**

Ref. No.	Location
D151	F-8
D152	C-10
D161	B-8
D162	B-8
D251	E-8
D252	C-10
D351	D-8
D352	C-10
D451	C-4
D452	B-8
D552	C-9
D651	B-8
D951	E-2
D952	B-2
D953	B-2
D955	C-3
D957	C-2
D958	C-2
D959	C-2
D960	C-2
D961	D-7
D971	C-5
D972	C-5
IC151	G-6
IC351	I-3
IC451	I-4
IC651	G-8
Q151	I-5
Q152	I-4
Q153	I-5
Q154	H-5
Q155	G-5
Q161	B-10
Q191	B-8
Q192	B-7
Q251	I-7
Q252	I-6
Q253	I-7
Q254	H-7
Q255	G-7
Q261	B-10
Q291	B-8
Q351	B-9
Q451	B-7
Q651	I-9
Q652	I-9
Q653	I-9
Q654	H-8
Q661	B-9
Q670	G-9
Q921	G-4
Q954	C-4



5-11. SCHEMATIC DIAGRAM — POWER AMP SECTION —

• See page 39 for IC Block Diagrams.

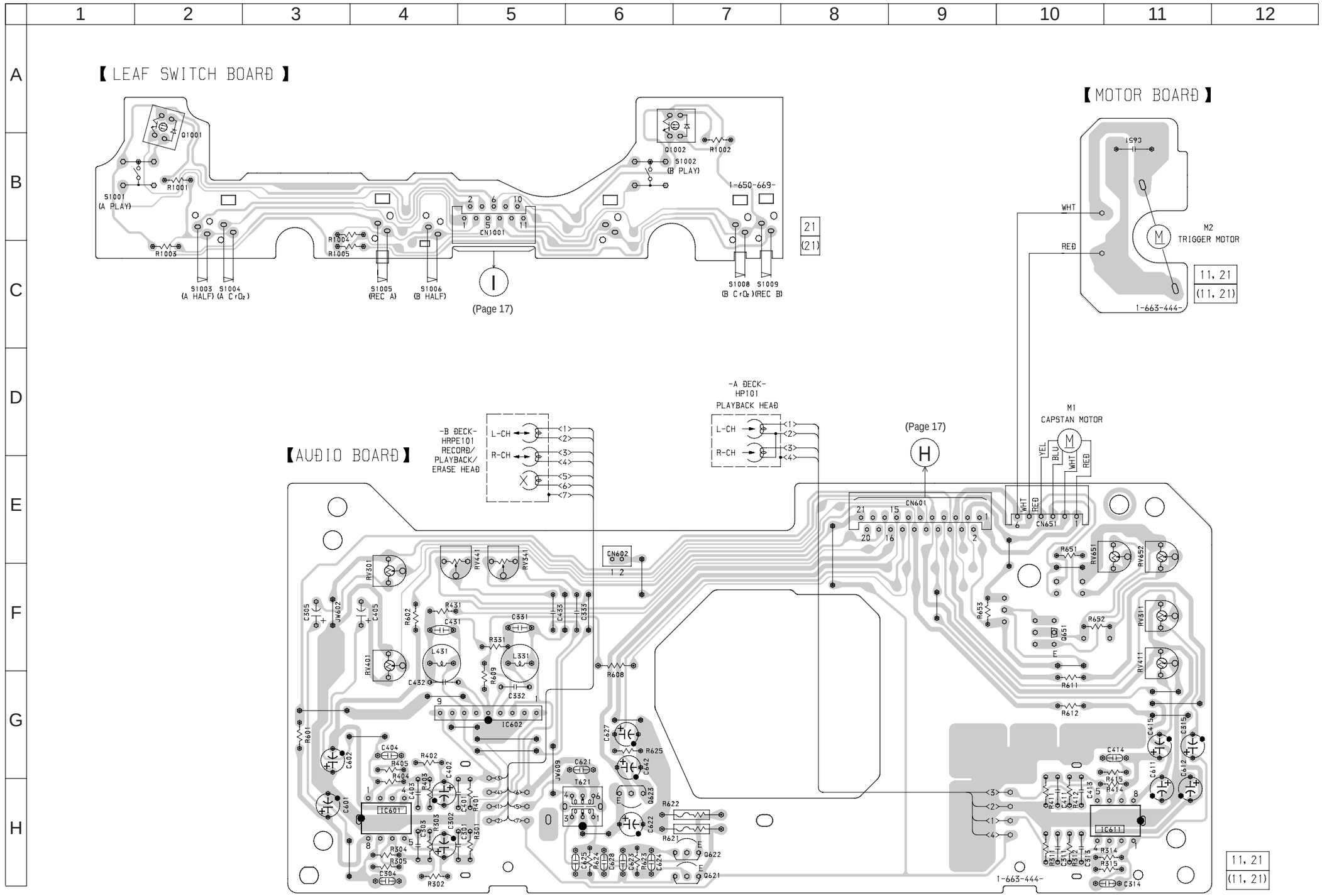


5-12. PRINTED WIRING BOARDS — DECK SECTION —

• See page 9 circuit boards location

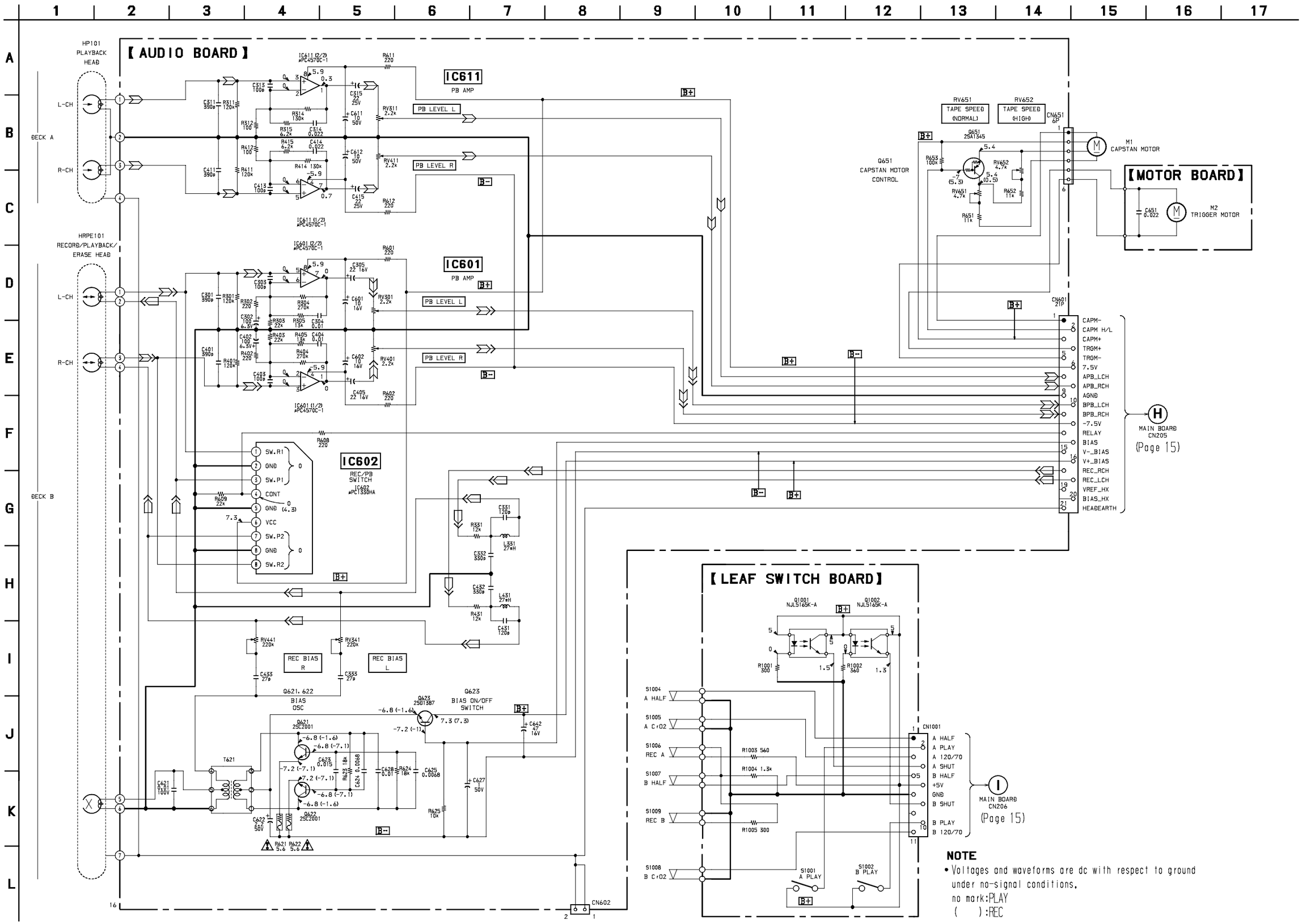
• **Semiconductor Location**

Ref. No.	Location
IC601	H-4
IC602	G-5
IC611	H-11
Q621	H-7
Q622	H-7
Q623	H-6
Q1001	A-2
Q1002	A-7



5-13. SCHEMATIC DIAGRAM — DECK SECTION —

• See page 39 for IC Block Diagrams.

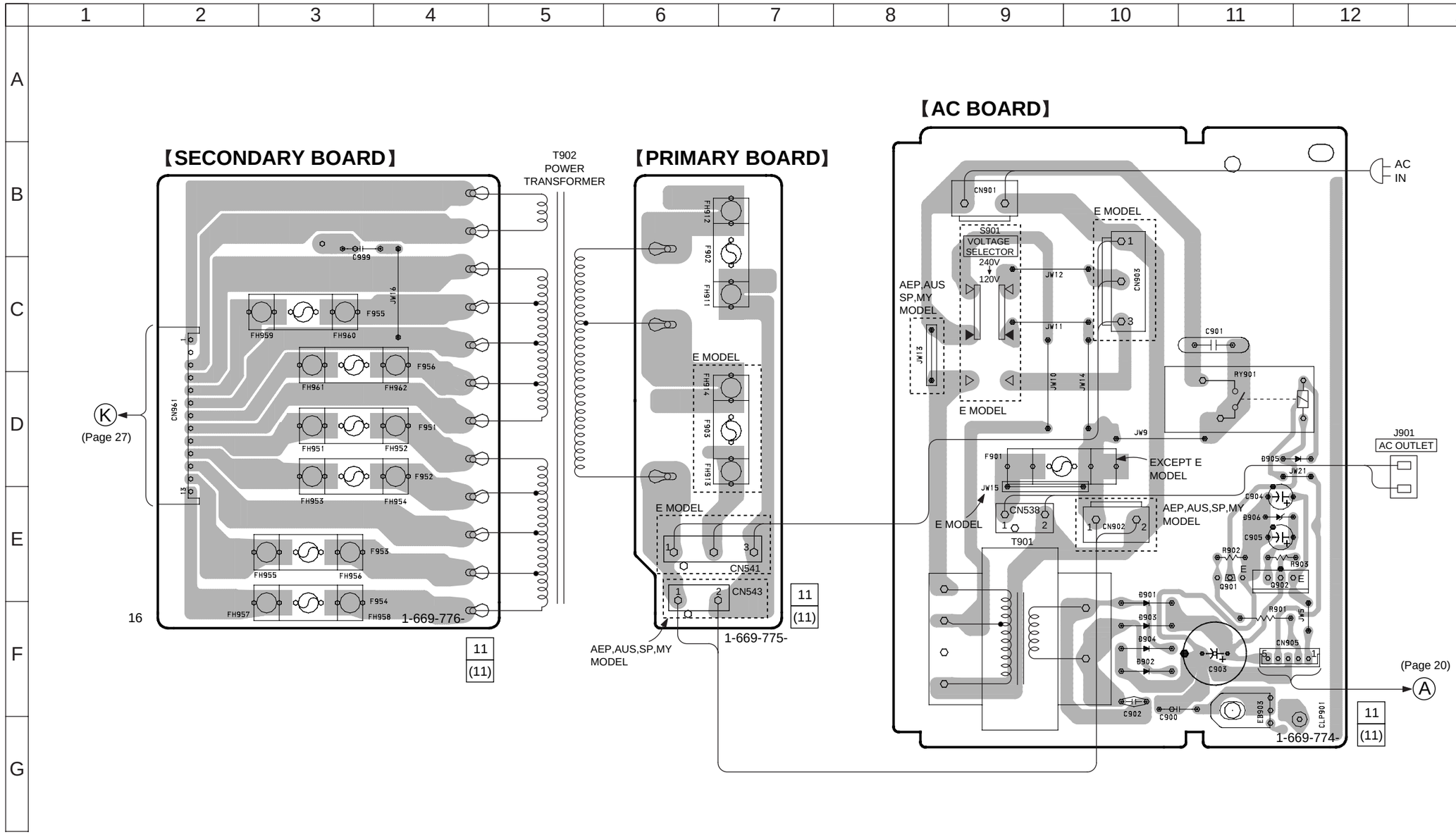


NOTE

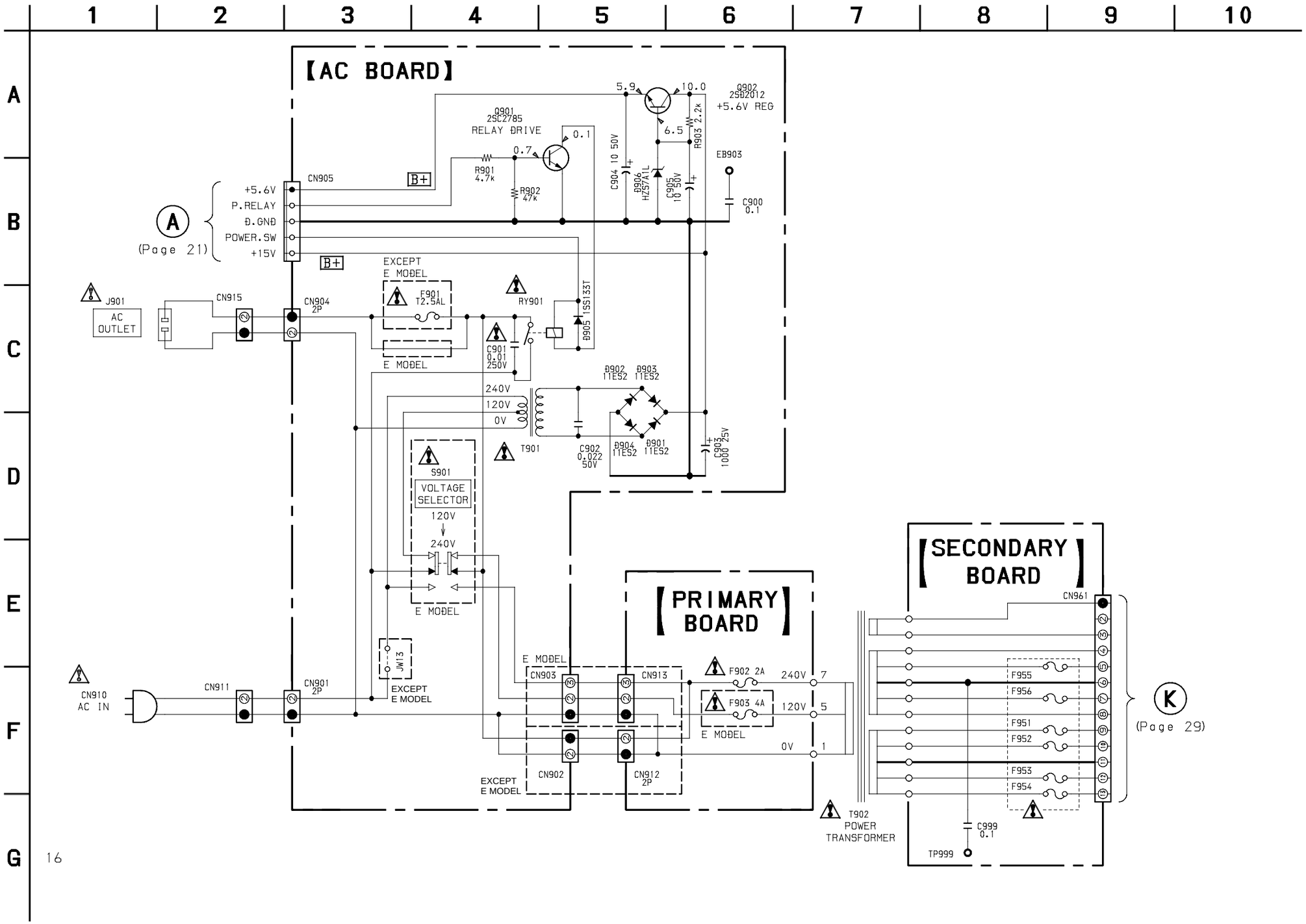
- Voltages and waveforms are dc with respect to ground under no-signal conditions,
  no mark:PLAY
  ( ):REC

5-14. PRINTED WIRING BOARDS — POWER TRANSFORMER SECTION —

• See page 9 circuit boards location

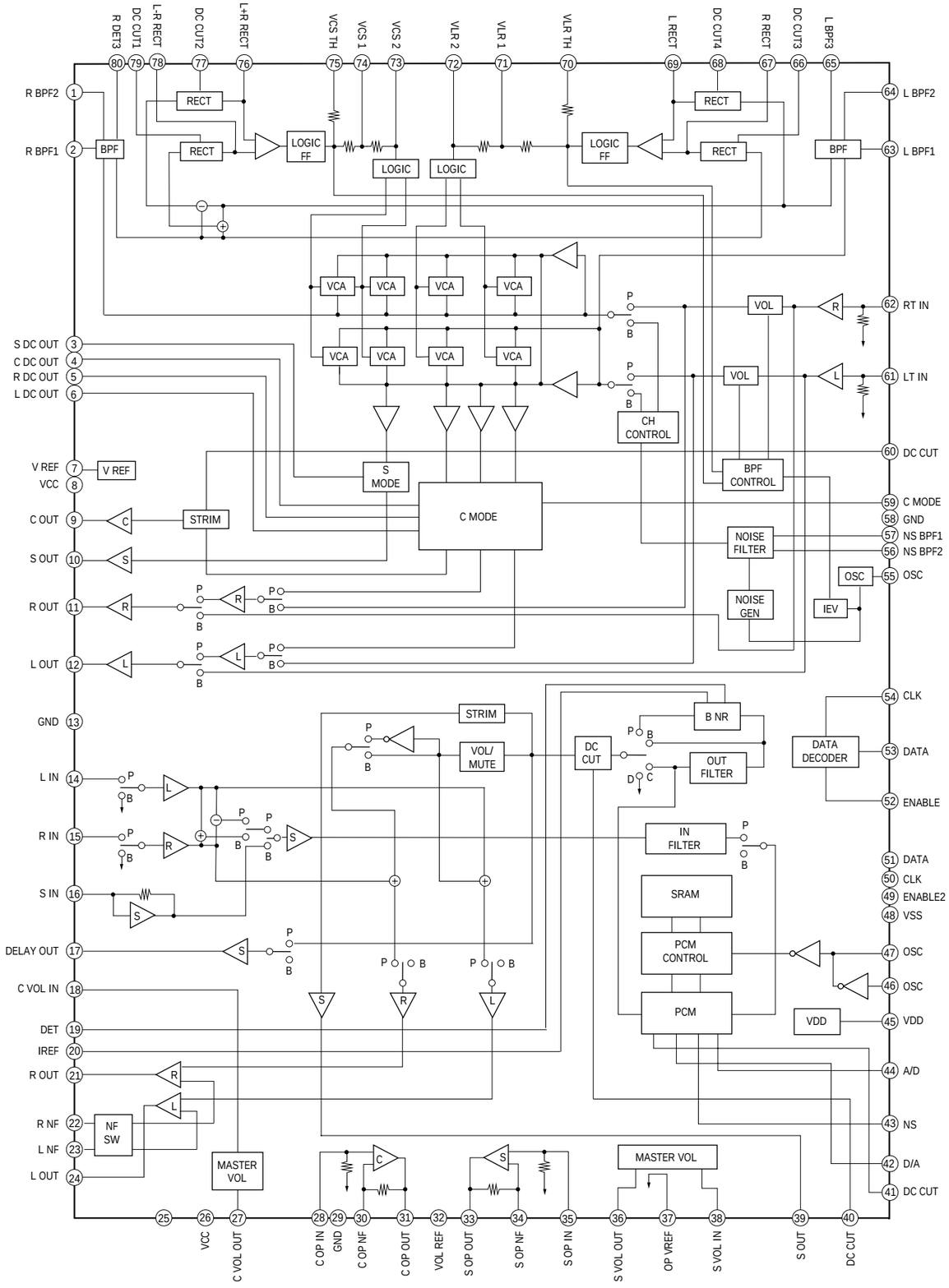


5-15. SCHEMATIC DIAGRAM — POWER TRANSFORMER SECTION —

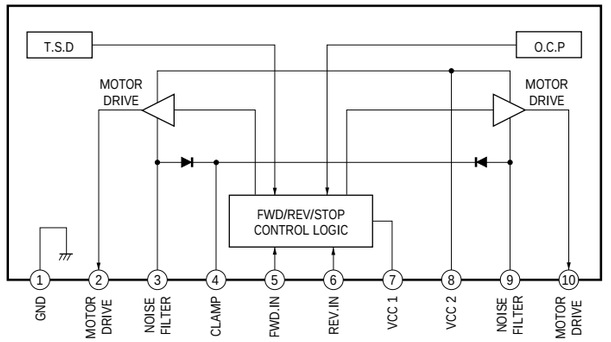


5-16. IC BLOCK DIAGRAMS

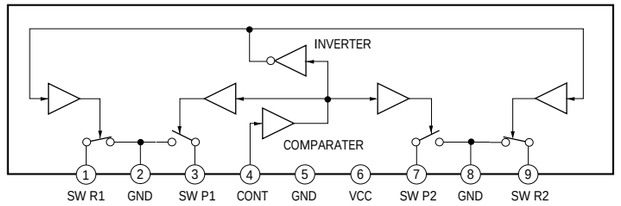
IC300 LV1041M (MAIN BOARD)



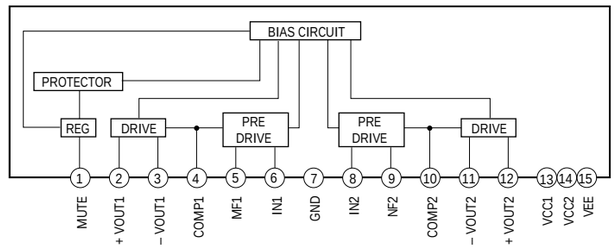
IC502 LB1641 (MAIN BOARD)



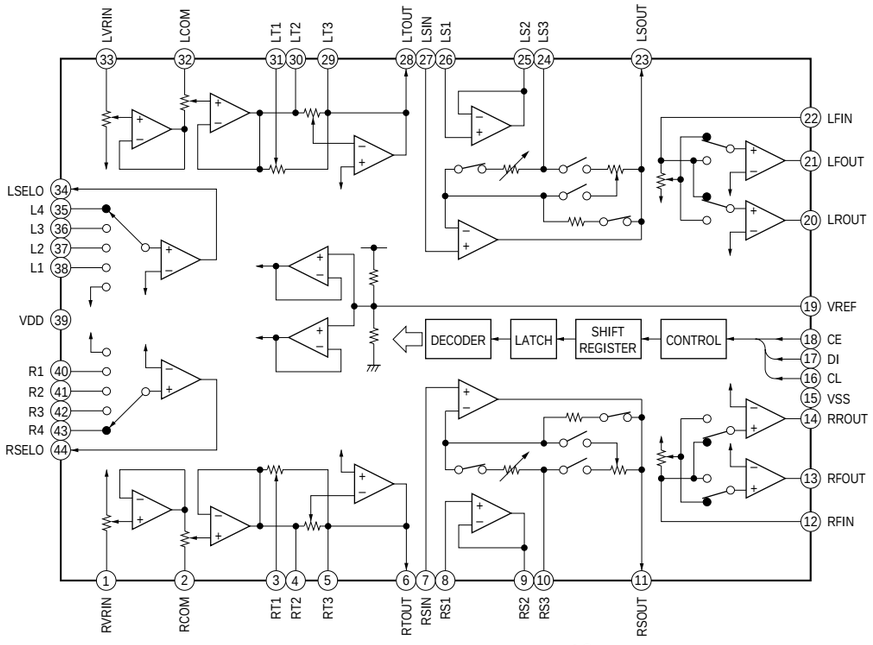
IC602 UPC1330HA (AUDIO BOARD)



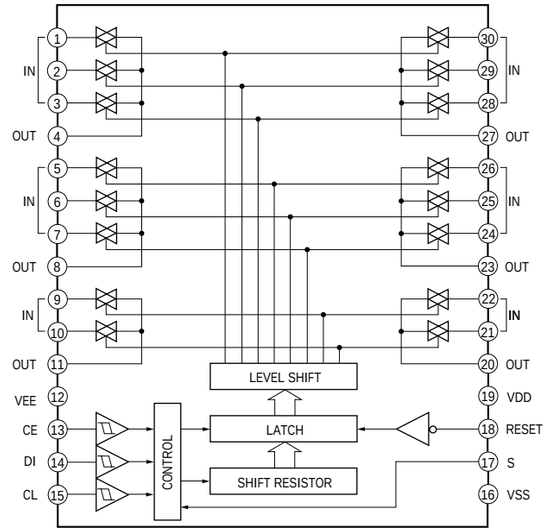
IC151 UPC2581V (POWER BOARD)



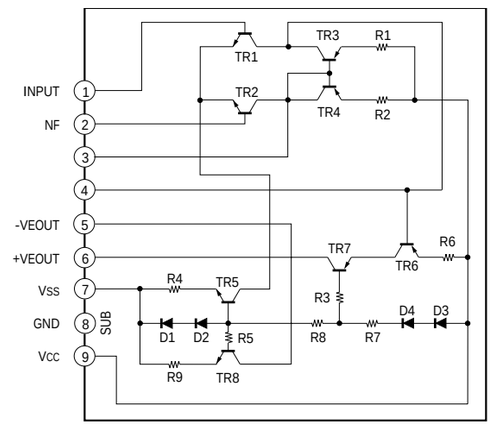
IC401 LC75373ED (MAIN BOARD)



IC302 LC7822 (MAIN BOARD)

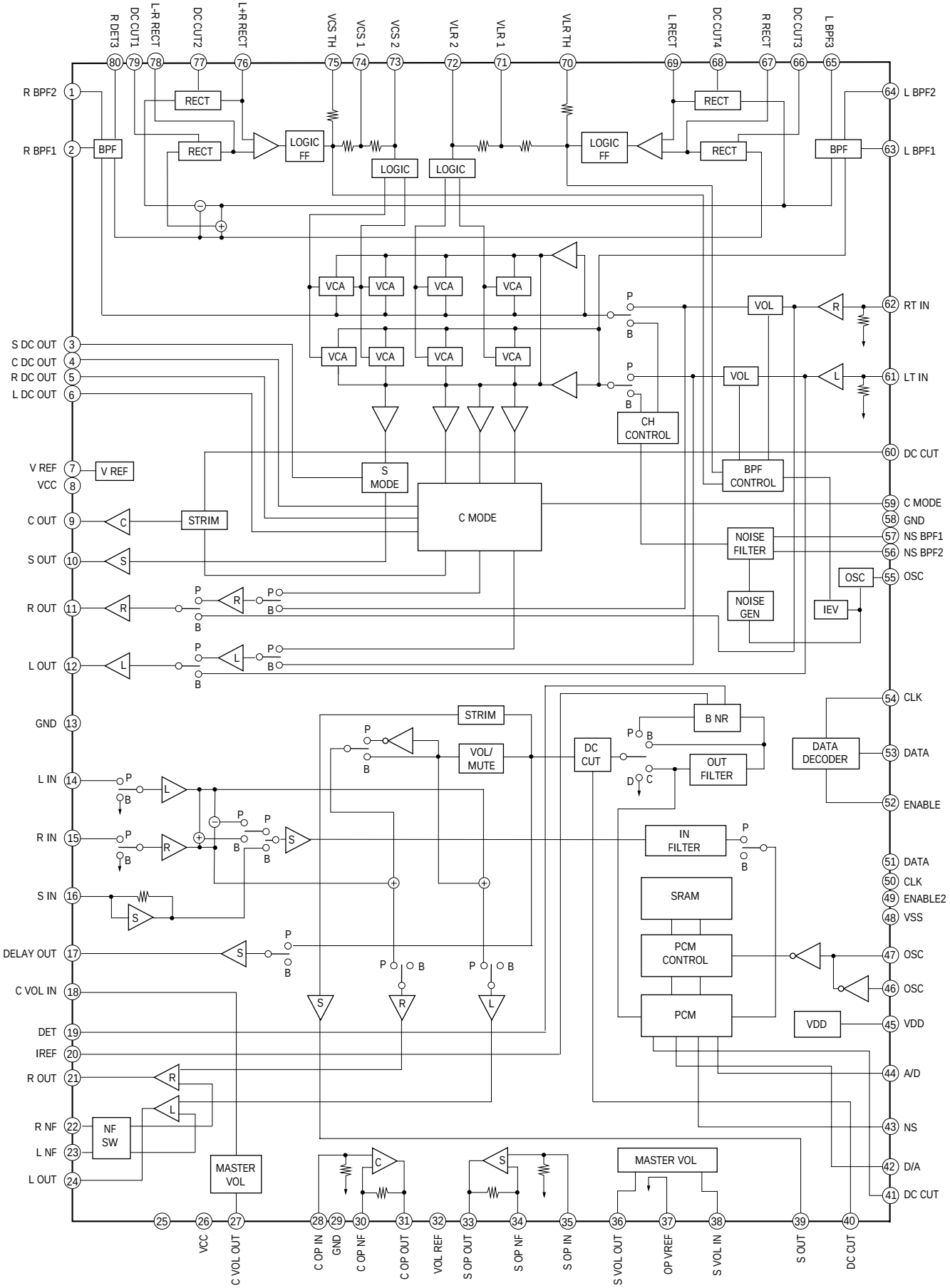


IC651 STK350-230 (POWER BOARD)

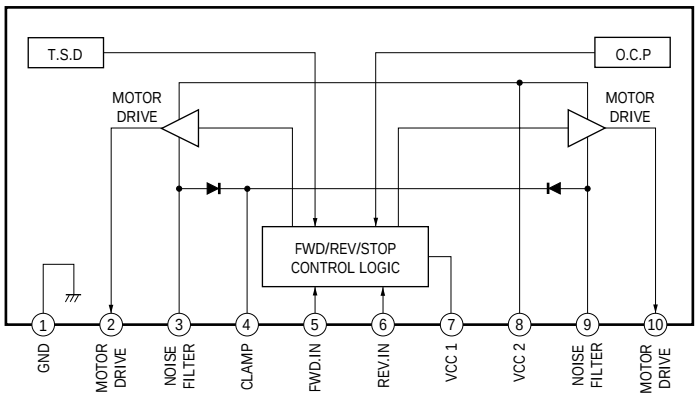


5-16. IC BLOCK DIAGRAMS

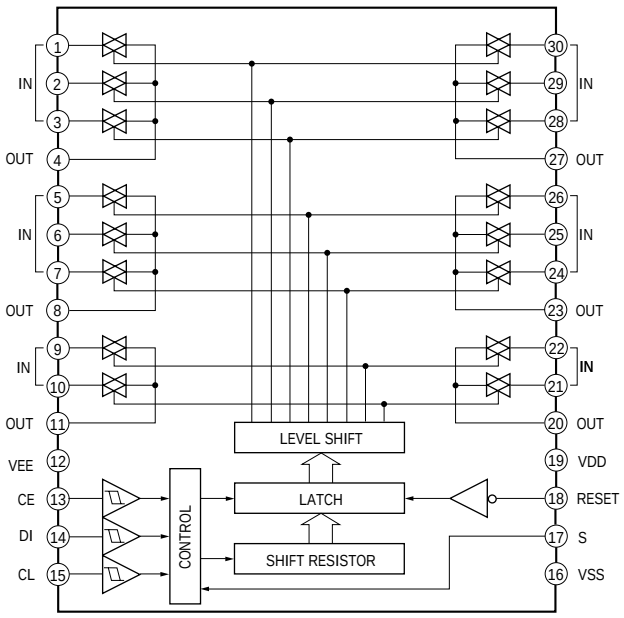
IC300 LV1041M (MAIN BOARD)



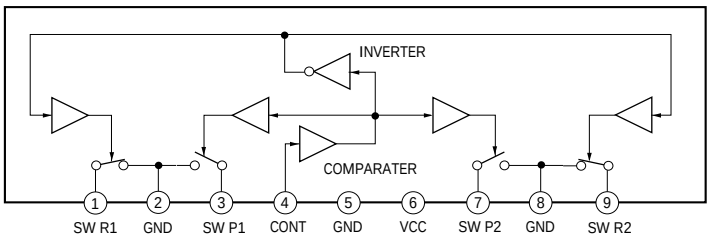
IC502 LB1641 (MAIN BOARD)



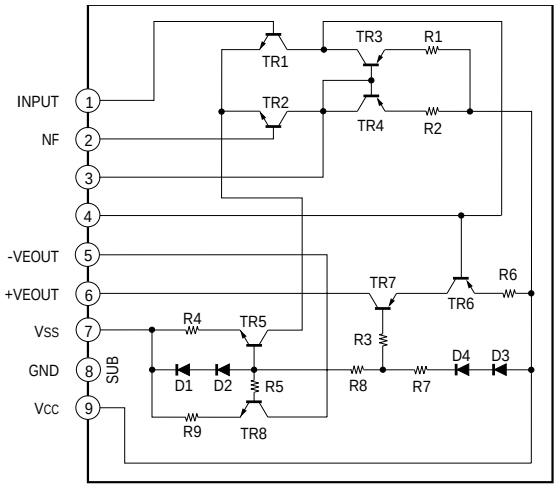
IC302 LC7822 (MAIN BOARD)



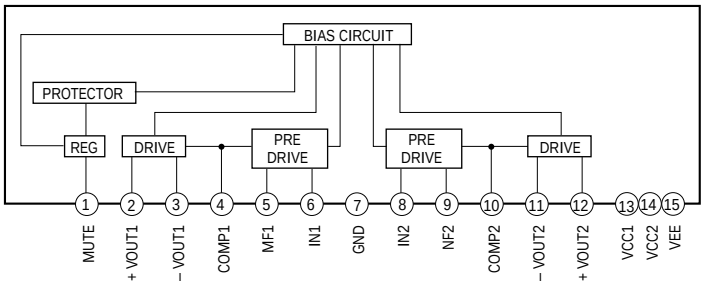
IC602 UPC1330HA (AUDIO BOARD)



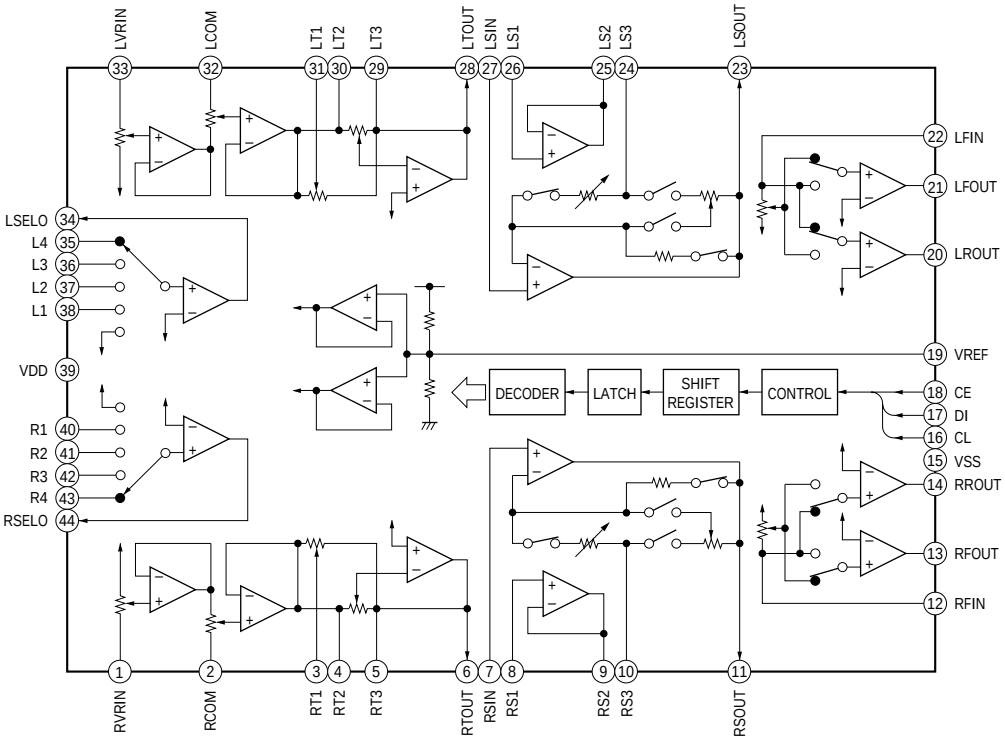
IC651 STK350-230 (POWER BOARD)



IC151 UPC2581V (POWER BOARD)



IC401 LC75373ED (MAIN BOARD)



5-17. IC PIN FUNCTION

• IC701 SYSTEM CONTROL (μPD78042FGF-088-3B9) (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1	V_{DD}	—	Power supply
2	$\overline{\text{ST MUTING}}$	O	ST muting
3	$\overline{\text{ST STEREO}}$	I	Stereo input
4	$\overline{\text{ST TUND}}$	I	ST tuned signal input
5	$\overline{\text{ST CE}}$	O	ST PLL latch
6	$\overline{\text{ST DI}}$	I	ST PLL data in
7	$\overline{\text{ST DO}}$	O	ST PLL data out
8	$\overline{\text{ST CLK}}$	O	ST PLL clock
9	$\overline{\text{VOL B(ENCORD)}}$	I	VOL. (RV701) encoded signal B input
10	$\overline{\text{RESET}}$	I	Reset input
11	X2	—	X'tal (5 MHz)
12	X1	—	X'tal (5 MHz)
13	IC (VPP)	—	GND
14	XT2	—	Not used. Open
15	$\overline{\text{VOL A (ENCORD)}}$	I	VOL. (RV701) signal A input (encoded data)
16	V_{DD}	—	Power supply (+5 V)
17	$\overline{\text{FUNK/PLOG/}}$ $\overline{\text{DELY CLK}}$	O	Clock for function control/electronic volume/switches
18	FUNK/PLOG/ DELY DATA	O	Data for function control/electronic volume/switches
19	FUNK CE	O	Chip eneable for function control
20	E VOL CE	O	Chip enable for electronic volume/switches
21	P.RELAY	O	Power relay output
22	$\overline{\text{SUR RY}}$	O	Sur/brige relay (Power change) output
23	$\overline{\text{FRONT RY}}$	O	Front relay output
24	H.P.RY	O	relay output
25	AVSS	—	GND
26	TC B HALF	I	Tape recorder B half signal input
27	TC A SHUT	I	Tape recorder A shut off input
28	TC B SHUT	I	Tape recorder B shut off input
29	KEY4	I	Key data 4
30	KEY3	I	Key data 3
31	KEY2	I	Key data 2
32	KEY1	I	Key data 1
33	MODE	I	Not used. Connected +5 V
34	AVDD	—	Power supply
35	AVREF	—	A/V refererence voltage
36	IC-MUTE	O	IC mute output
37	TC REC/PB/PASS	I	TC REC/PB/PASS
38	SIRCS	I	SIRCS signal input
39	POWER-SENSE	I	Power sense input
40	V_{SS}	—	GND
41	LV CLK	I	LV1040M clock input
42	LV DATA	I	LV1040M data input
43	LV SUR CE	O	LV1040M SUR chip enable 1
44	LV VOL CE	O	LV1040M VO chip enable 2
45	$\overline{\text{H.P SENSE}}$	I	sense input
46	V_{DD}	—	Power supply (+5 V)
47	S/W.M ON/OFF	O	Super woofer muting ON/OFF output
48	PLOG LED	O	PLOG LED output
49	LINE MUTING	O	Line muting

Pin No.	Pin Name	I/O	DescriptionTC line muting
50	TC LM	O	TC line muting
51	TC B TRG	O	TC B TRG output
52	TC A TRG	O	TC A TRG output
53	TC B PLAY	I	TC B PLAY switch input
54	TC A PLAY	I	TC A PLAY switch input
55	TC A HALF	I	TC A half input
56	TC RELAY REC/PB	O	TC relay drive output
57	TC CAP.M H/L	O	TC capstan motor high or low output
58	TC CAP.M ON/OFF	O	TC capstan motor output
59	TC TRG H/L	O	TC TRG high or low output
60	TC A/B	O	TC playback A or B output
61	TC NORMAL/ HIGH	O	TC equalizer normal or high output
62	TC BIAS ON/OFF	O	TC bias output
63	TC RM ON/OFF	O	TC REC muting
64	PROTECT IN	I	Protection signal in
65	TC NR ON/OFF	O	TC noise reduction ON or OFF output
66	S/W-RY	O	Super woofer relay drive output
67	PWR MECH SW	I	Power mechanical switch
68	PHASE OUT	O	Phase signal output
69	10dB MUTING	O	dB switch output
70	SEG18	O	FL indicator tube segment drive 18
71	SEG17	O	FL indicator tube segment drive 17
72	SEG16	O	FL indicator tube segment drive 16
73	SEG15	O	FL indicator tube segment drive 15
74	SEG14	O	FL indicator tube segment drive 14
75	SEG13	O	FL indicator tube segment drive 13
76	SEG12	O	FL indicator tube segment drive 12
77	SEG11	O	FL indicator tube segment drive 11
78	SEG10	O	FL indicator tube segment drive 10
79	VLOAD	—	V LOAD (+2.6 V) to FL indicator tube
80	SEG9	O	FL indicator tube segment drive 9
81	SEG8	O	FL indicator tube segment drive 8
82	SEG7	O	FL indicator tube segment drive 7
83	SEG6	O	FL indicator tube segment drive 6
84	SEG5	O	FL indicator tube segment drive 5
85	SEG4	O	FL indicator tube segment drive 4
86	SEG3	O	FL indicator tube segment drive 3
87	SEG2	O	FL indicator tube segment drive 2
88	SEG1	O	FL indicator tube segment drive 1
89	GR12	O	FL indicator tube grid drive 12
90	GR11	O	FL indicator tube grid drive 11
91	GR10	O	FL indicator tube grid drive 10
92	GR9	O	FL indicator tube grid drive 9
93	GR8	O	FL indicator tube grid drive 8
94	GR7	O	FL indicator tube grid drive 7
95	GR6	O	FL indicator tube grid drive 6
96	GR5	O	FL indicator tube grid drive 5
97	GR4	O	FL indicator tube grid drive 4
98	GR3	O	FL indicator tube grid drive 3
99	GR2	O	FL indicator tube grid drive 2
100	GR1	O	FL indicator tube grid drive 1

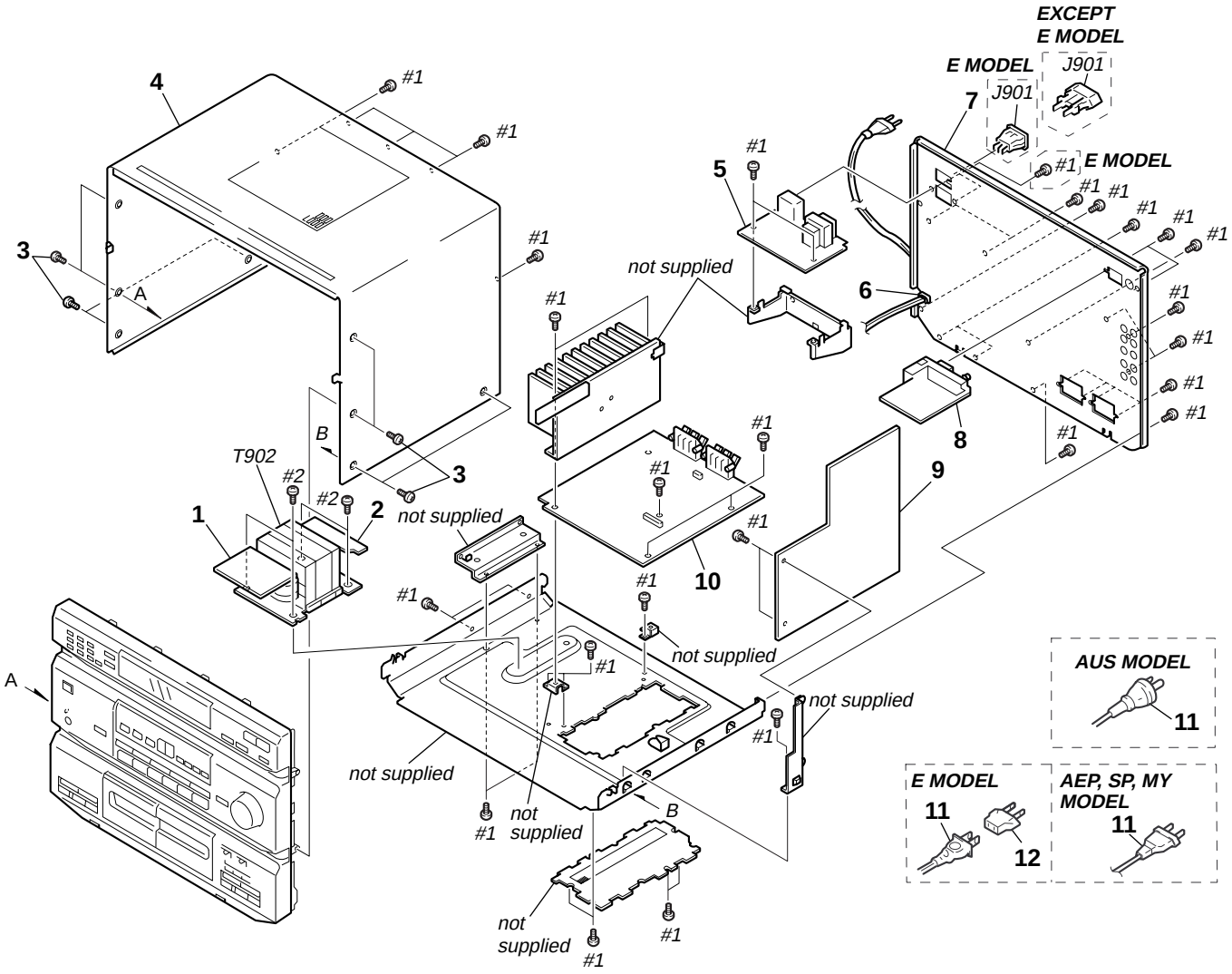
SECTION 6
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  AUS : Australian
  SP : Singapore
  MY : Malaysia

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

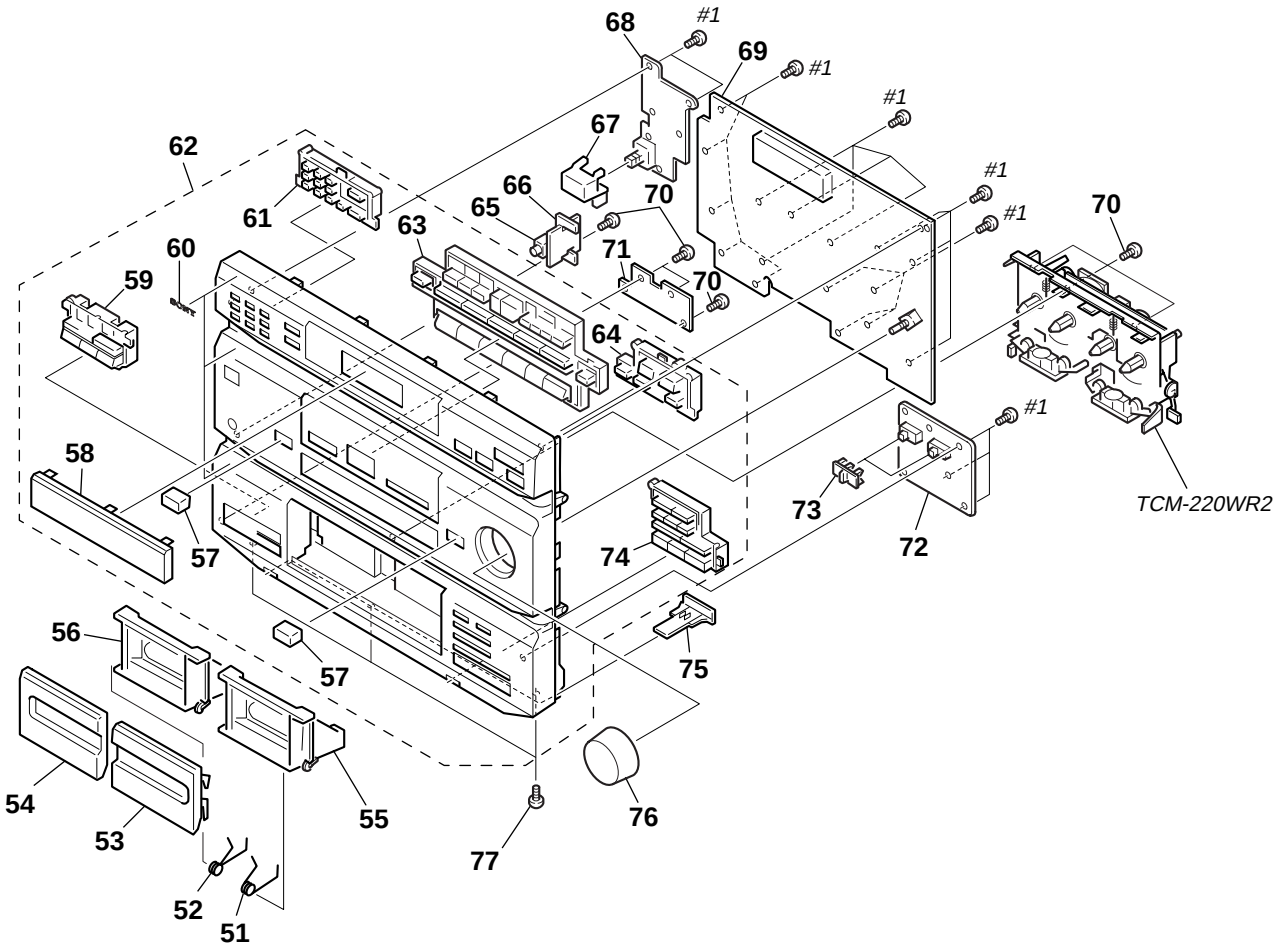
6-1. MAIN SECTION



Ref. No.	Part No.	Description	Remarks
* 1	1-669-776-11	SECONDARY BOARD	
* 2	1-669-775-11	PRIMARY BOARD	
3	4-929-973-01	SCREW (CASE, 3 POINT)	
* 4	4-990-063-11	CASE	
* 5	1-669-774-11	AC BOARD	
* 6	3-703-244-00	BUSHING (2104), CORD (AEP,MY,SP,AUS)	
6	3-703-571-11	BUSHING (S) (4516), CORD (E)	
* 7	4-990-064-51	PLATE, BACK (AEP)	
* 7	4-990-064-61	PLATE, BACK (E)	
* 7	4-990-064-71	PLATE, BACK (AUS)	
* 7	4-990-064-81	PLATE, BACK (MY,SP)	
8	1-233-545-11	ENCAPSULATED COMPONENT (E,MY,SP,AUS)	

Ref. No.	Part No.	Description	Remarks
8	1-693-381-11	TUNER, FM/AM (AEP)	
* 9	A-4407-404-A	MAIN BOARD, COMPLETE (AEP)	
* 9	A-4407-403-A	MAIN BOARD, COMPLETE (E,MY,SP,AUS)	
* 10	A-4407-839-A	POWER BOARD, COMPLETE	
⚠11	1-575-653-11	CORD, POWER (E)	
⚠11	1-690-608-11	CORD, POWER (AUS)	
⚠11	1-769-744-11	CORD, POWER (AEP,MY,SP)	
⚠12	1-569-007-11	ADAPTOR, CONVERSION 2P (E)	
⚠J901	1-526-794-11	OUTLET, AC (AEP,MY,SP,AUS)	
⚠J901	1-526-882-00	OUTLET, AC (E)	
⚠T902	1-431-849-11	TRANSFORMER, POWER (AEP,MY,SP,AUS)	
⚠T902	1-431-850-11	TRANSFORMER, POWER (E)	

6-2. FRONT PANEL SECTION

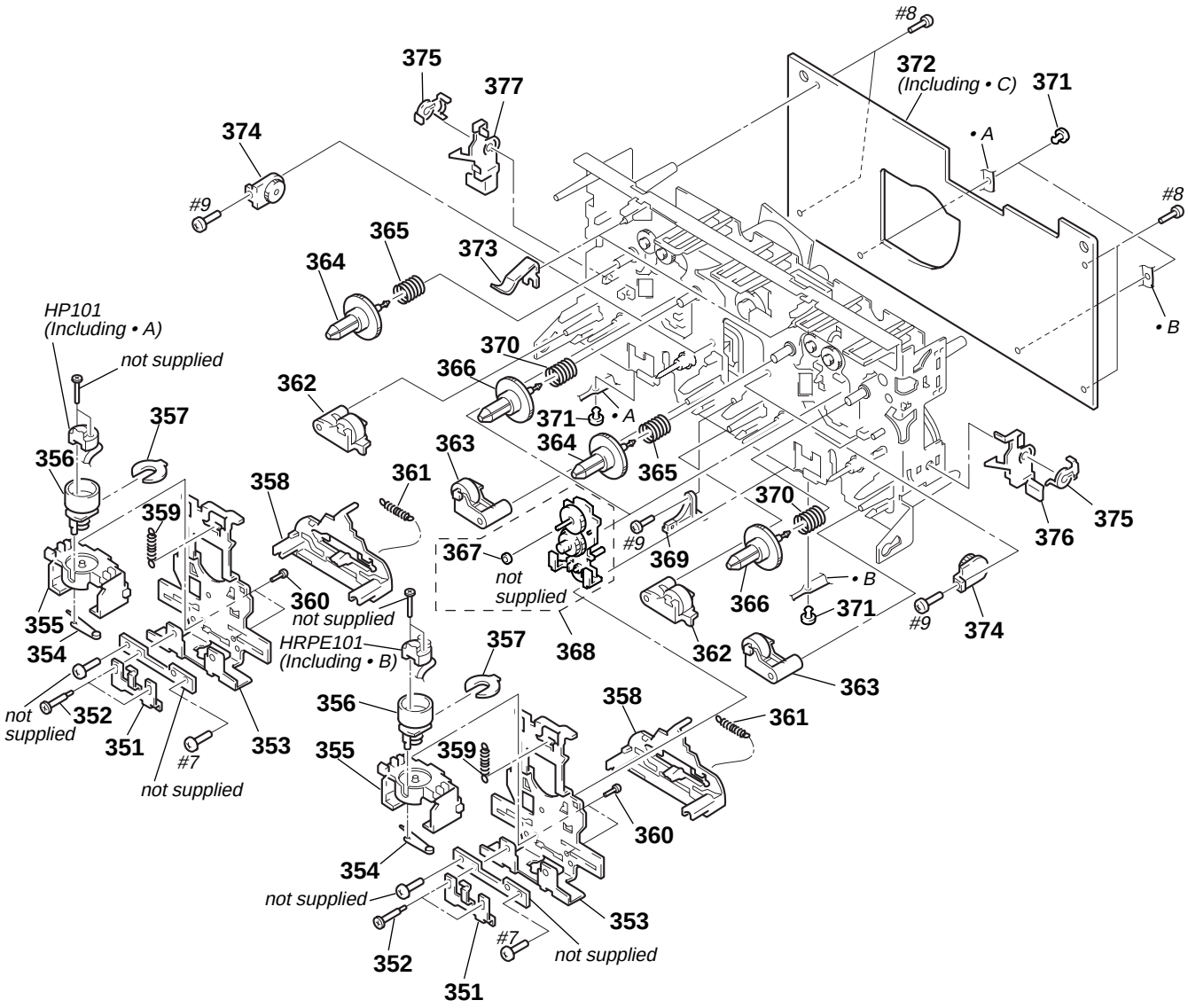


Ref. No.	Part No.	Description	Remarks
51	4-959-232-11	SPRING (R), TORSION	
52	4-959-231-11	SPRING (L), TORSION	
53	X-3373-997-1	LID (B) ASSY, CASSETTE	
54	X-3373-996-1	LID (A) ASSY, CASSETTE	
55	X-4945-691-1	HOLDER (R) ASSY, CASSETTE	
56	X-4945-690-1	HOLDER (L) ASSY, CASSETTE	
* 57	4-982-462-01	HOUSE, LED	
58	4-990-059-01	WINDOW (ST)	
59	4-990-053-01	BUTTON (TC-A)	
60	3-008-600-11	EMBLEM (5-AR), SONY	
61	4-990-050-01	BUTTON (TEN KEY)	
62	A-4411-040-A	PANEL ASSY, FRONT	
63	4-990-052-11	BUTTON (FUNCTION)	
64	4-990-051-01	BUTTON (–/+)	

Ref. No.	Part No.	Description	Remarks
* 65	1-669-780-11	HP BOARD	
* 66	1-669-772-11	SUB HP BOARD	
67	4-980-109-51	BUTTON (P-M)	
* 68	1-669-779-11	TEN KEY BOARD	
* 69	A-4407-838-A	DISPLAY BOARD, COMPLETE (AEP)	
* 69	A-4407-844-A	DISPLAY BOARD, COMPLETE (E,MY,SP,AUS)	
70	4-951-620-01	SCREW (2.6X8), +BVTP	
* 71	1-669-778-11	DECK A BOARD	
* 72	A-4407-843-A	DECK B BOARD, COMPLETE	
73	4-990-058-01	KNOB (DOLBY)	
74	4-990-054-01	BUTTON (TC-B)	
75	3-931-427-01	BUTTON (EJ)	
76	4-999-844-01	KNOB (VOL)	
77	4-929-973-01	SCREW (CASE, 3 POINT)	

6-3. TAPE MECHANISM DECK SECTION-1 (TCM-220WR2)

• A : HEAD FLEXIBLE board (DECK A)
• B : HEAD FLEXIBLE board (DECK B)

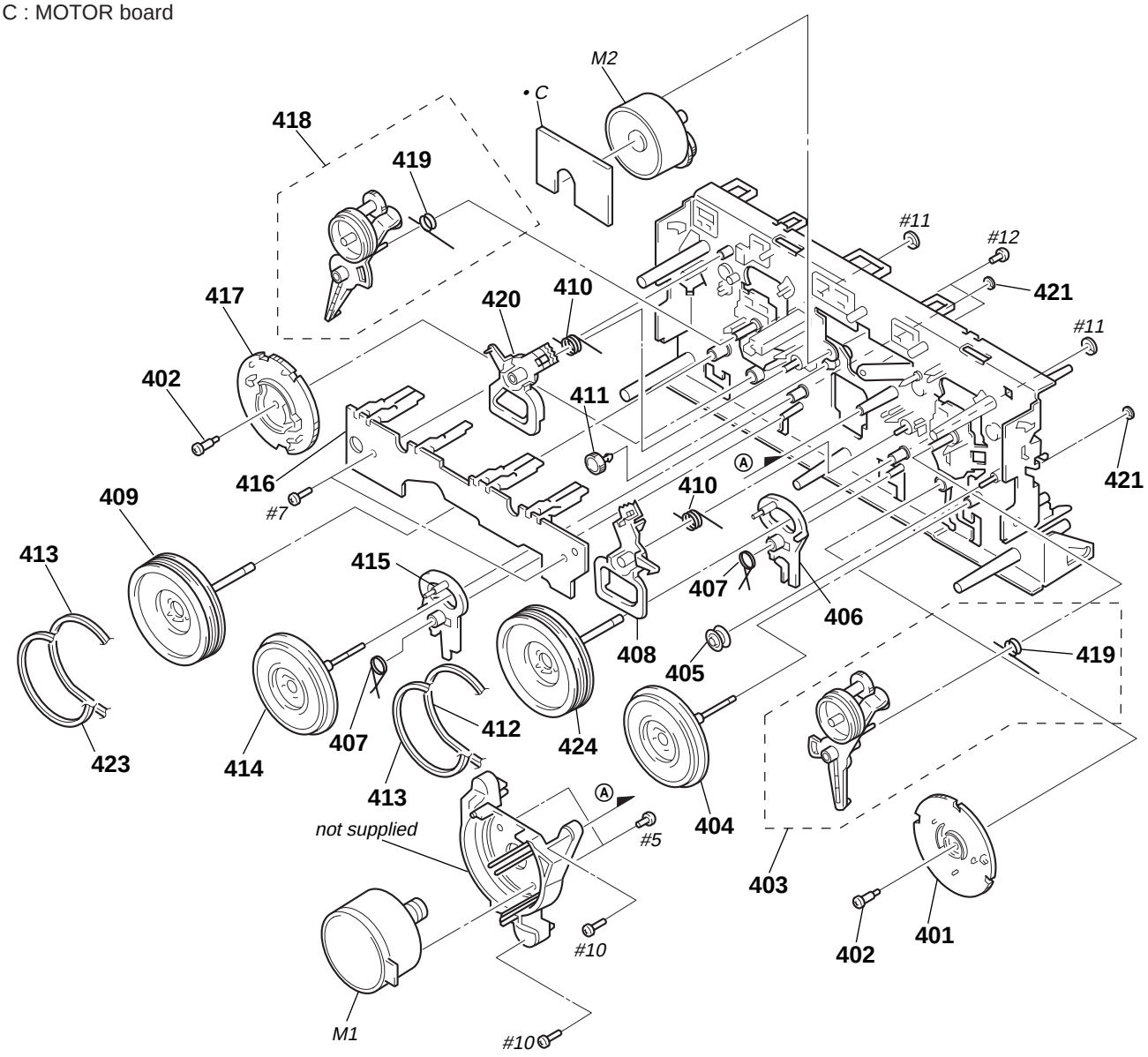


Ref. No.	Part No.	Description	Remarks
351	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT	
352	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT	
353	X-3373-113-1	SLIDER (HEAD) ASSY	
354	3-908-556-01	SPRING, HEAD TOGGLE	
355	3-908-558-02	FITTING BLOCK, HEAD	
356	3-908-557-02	ROTARY BLOCK, HEAD	
* 357	3-908-559-01	STOPPER, AZIMUTH	
358	3-908-555-01	SLIDER (REV SLIDER)	
359	3-917-143-11	SPRING, TENSION	
360	3-388-848-01	SCREW (P2X6) (B TIGHT)	
361	3-939-371-01	SPRING (1), TENSION	
362	X-3369-909-1	PINCH LEVER (REV) ASSY	
363	X-3369-908-1	PINCH LEVER (FWD) ASSY	
364	3-908-613-01	GEAR (S), REEL	
365	3-917-141-01	SPRING, COMPRESSION	

Ref. No.	Part No.	Description	Remarks
366	X-3371-305-1	REEL (T) ASSY	
367	3-669-465-01	WASHER (1.5), STOPPER	
368	X-3370-173-1	TU ASSY	
* 369	4-980-439-01	FULCRUM, HOLDER	
370	3-917-142-01	SPRING, COMPRESSION	
371	3-939-862-01	CLIP	
372	A-2007-131-A	AUDIO BOARD, COMPLETE	
373	3-930-972-01	DETENT, HALF	
374	3-354-963-01	DAMPER	
375	3-354-957-01	JOINT (LOCK LEVER)	
376	3-354-954-01	LEVER (LOCK LEVER R)	
377	3-354-953-01	LEVER (LOCK LEVER L)	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK) (DECK A)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE) (DECK B)	

6-4. TAPE MECHANISM DECK SECTION-2 (TCM-220WR2)

• C : MOTOR board



Ref. No.	Part No.	Description	Remarks
401	3-908-597-01	CAM (A)	
402	3-908-608-11	SCREW, STEP	
403	X-3372-930-1	ARM (A) ASSY, FR	
404	X-3370-169-1	FLYWHEEL (AR) ASSY	
405	3-928-047-01	PULLEY, TENSION	
406	3-908-599-01	LEVER (REV-A)	
407	3-908-601-01	SPRING (REV LEVER), TORSION	
408	3-908-603-01	LEVER (TRIGGER A)	
409	X-3367-593-1	FLYWHEEL (BF) ASSY	
410	3-908-605-01	SPRING (TRIGGER), TORSION	
411	3-908-609-01	GEAR, TRIGGER	
412	3-913-845-11	BELT (A)	
413	3-913-846-11	BELT (FR)	
414	X-3370-171-1	FLYWHEEL (BR) ASSY	
415	3-908-600-01	LEVER (REV-B)	
* 416	1-650-669-11	LEAF SWITCH BOARD	
417	3-908-598-01	CAM (B)	
418	X-3372-931-1	ARM (B) ASSY, FR	
419	3-914-111-01	SPRING (FR), TORSION	
420	3-908-604-01	LEVER (TRIGGER B)	
421	3-911-115-01	WASHER, STOPPER	
423	3-917-176-11	BELT (B)	
424	X-3370-172-1	FLYWHEEL (AF) ASSY	
M1	A-2004-409-A	MOTOR ASSY, CAPSTAN	
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	

SECTION 7
ELECTRICAL PARTS LIST

AC **AUDIO**

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- Abbreviation
  AUS : Australian
  SP : Singapore
  MY : Malaysia

Ref. No.	Part No.	Description			Remarks
*	1-669-774-11	AC BOARD			
		*********			
	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
C900	1-164-159-21	CERAMIC	0.1uF		50V
⚠C901	1-113-925-11	CERAMIC	0.01uF	20%	250V
C902	1-136-157-00	FILM	0.022uF	5%	50V
C903	1-126-942-61	ELECT	1000uF	20%	25V
C904	1-126-964-11	ELECT	10uF	20%	50V
C905	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR 2P			
CN902	1-564-321-00	PIN, CONNECTOR 2P (AEP,MY,SP,AUS)			
* CN903	1-564-687-11	PIN, CONNECTOR 3P (E)			
* CN905	1-568-954-11	PIN, CONNECTOR 5P			
		< DIODE >			
D901	8-719-200-82	DIODE 11ES2			
D902	8-719-200-82	DIODE 11ES2			
D903	8-719-200-82	DIODE 11ES2			
D904	8-719-200-82	DIODE 11ES2			
D905	8-719-991-33	DIODE 1SS133T-77			
D906	8-719-935-46	DIODE HZS7A1LTD			
		< EARTH >			
* EB903	1-537-738-21	TERMINAL, EARTH			
		< FUSE >			
⚠F901	1-532-464-31	FUSE TIME LAG 2.5A 250V (EXCEPT E)			
		< TRANSISTOR >			
Q901	8-729-119-78	TRANSISTOR 2SC403SP-51			
Q902	8-729-209-15	TRANSISTOR 2SD2012			
		< RESISTOR >			
R901	1-249-425-11	CARBON	4.7K	5%	1/4W F
R902	1-249-437-11	CARBON	47K	5%	1/4W
R903	1-249-421-11	CARBON	2.2K	5%	1/4W F
		< RELAY >			
⚠RY901	1-755-018-11	RELAY			

Ref. No.	Part No.	Description			Remarks
		< SWITCH >			
⚠S901	1-571-309-11	SWITCH (VOLTAGE SELECTOR)(E)			
		< TRANSFORMER >			
⚠T901	1-450-358-11	TRANSFORMER, POWER			
**********					
	A-2007-131-A	AUDIO BOARD, COMPLETE			
		**********			
		(included MOTOR BOARD)			
		< CAPACITOR >			
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-126-968-11	ELECT	100uF	20%	6.3V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-130-483-00	MYLAR	0.01uF	5%	50V
C305	1-107-715-11	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-162-282-31	CERAMIC	100PF	10%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-126-233-11	ELECT	22uF	20%	50V
C331	1-137-427-11	FILM	120PF	5%	50V
C332	1-162-288-31	CERAMIC	330PF	10%	50V
C333	1-162-209-31	CERAMIC	27PF	5%	50V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-126-968-11	ELECT	100uF	20%	6.3V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-483-00	MYLAR	0.01uF	5%	50V
C405	1-107-715-11	ELECT	22uF	20%	16V
C411	1-162-289-31	CERAMIC	390PF	10%	50V
C413	1-162-282-31	CERAMIC	100PF	10%	50V
C414	1-130-487-00	MYLAR	0.022uF	5%	50V
C415	1-126-233-11	ELECT	22uF	20%	50V
C431	1-137-427-11	FILM	120PF	5%	50V
C432	1-162-288-31	CERAMIC	330PF	10%	50V
C433	1-162-209-31	CERAMIC	27PF	5%	50V
C601	1-104-396-11	ELECT	10uF	20%	16V
C602	1-104-396-11	ELECT	10uF	20%	16V
C611	1-124-907-11	ELECT	10uF	20%	50V
C612	1-124-907-11	ELECT	10uF	20%	50V
C621	1-137-150-11	FILM	0.01uF	5%	100V
C622	1-126-961-11	ELECT	2.2uF	20%	50V
C623	1-136-155-00	FILM	0.015uF	5%	50V
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V
C627	1-124-903-11	ELECT	1uF	20%	50V
C628	1-136-153-00	FILM	0.01uF	5%	50V

AUDIO | DECK A | DECK B

Ref. No.	Part No.	Description				Remarks
C642	1-104-664-11	ELECT	47uF	20%	16V	
C651	1-161-494-00	CERAMIC	0.022uF		25V	
		< CONNECTOR >				
CN601	1-695-382-31	PIN, CONNECTOR (PC BOARD) 21P				
CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P				
* CN651	1-564-521-11	PLUG, CONNECTOR 6P				
		< IC >				
IC601	8-759-111-44	IC UPC4570C-1				
IC601	8-759-710-59	IC NJM4580D-D				
IC602	8-759-143-54	IC UPC1330HA				
IC611	8-759-111-44	IC UPC4570C-1				
IC611	8-759-710-59	IC NJM4580D-D				
		< COIL >				
L331	1-410-780-11	INDUCTOR	27mH			
L431	1-410-780-11	INDUCTOR	27mH			
		< TRANSISTOR >				
Q621	8-729-142-46	TRANSISTOR	2SC2001-LK			
Q622	8-729-142-46	TRANSISTOR	2SC2001-LK			
Q623	8-729-801-93	TRANSISTOR	2SD1387			
Q651	8-729-900-65	TRANSISTOR	DTA144ES			
		< RESISTOR >				
R301	1-247-881-00	CARBON	120K	5%	1/4W	
R302	1-249-409-11	CARBON	220	5%	1/4W	F
R303	1-249-433-11	CARBON	22K	5%	1/4W	
R304	1-247-889-00	CARBON	270K	5%	1/4W	
R305	1-247-858-11	CARBON	13K	5%	1/4W	
R311	1-247-881-00	CARBON	120K	5%	1/4W	
R312	1-247-807-31	CARBON	100	5%	1/4W	
R314	1-247-882-11	CARBON	130K	5%	1/4W	
R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
R331	1-249-430-11	CARBON	12K	5%	1/4W	
R401	1-247-881-00	CARBON	120K	5%	1/4W	
R402	1-249-409-11	CARBON	220	5%	1/4W	F
R403	1-249-433-11	CARBON	22K	5%	1/4W	
R404	1-247-889-00	CARBON	270K	5%	1/4W	
R405	1-247-858-11	CARBON	13K	5%	1/4W	
R411	1-247-881-00	CARBON	120K	5%	1/4W	
R412	1-247-807-31	CARBON	100	5%	1/4W	
R414	1-247-882-11	CARBON	130K	5%	1/4W	
R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
R431	1-249-430-11	CARBON	12K	5%	1/4W	
R601	1-249-409-11	CARBON	220	5%	1/4W	F
R602	1-249-409-11	CARBON	220	5%	1/4W	F
R608	1-249-409-11	CARBON	220	5%	1/4W	F
R609	1-249-433-11	CARBON	22K	5%	1/4W	
R611	1-249-409-11	CARBON	220	5%	1/4W	F
R612	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
R623	1-249-432-11	CARBON	18K	5%	1/4W	
R624	1-249-432-11	CARBON	18K	5%	1/4W	
R625	1-249-429-11	CARBON	10K	5%	1/4W	
R651	1-247-856-00	CARBON	11K	5%	1/4W	
R652	1-247-856-00	CARBON	11K	5%	1/4W	
R653	1-249-441-11	CARBON	100K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
		< VARIABLE RESISTOR >				
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV341	1-238-551-11	RES, ADJ, CARBON 220K				
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV441	1-238-551-11	RES, ADJ, CARBON 220K				
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K				
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K				
		< TRANSFORMER >				
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION				
**********						
*	1-669-778-11	DECK A BOARD				
		**********				
		< CONNECTOR >				
* CN706	1-568-943-11	PIN, CONNECTOR 5P				
		< DIODE >				
D821	8-719-046-43	DIODE	SEL5421E-TP15 (FWD)			
D822	8-719-046-43	DIODE	SEL5421E-TP15 (REV)			
		< RESISTOR >				
R851	1-249-426-11	CARBON	5.6K	5%	1/4W	
R852	1-249-429-11	CARBON	10K	5%	1/4W	
R853	1-249-432-11	CARBON	18K	5%	1/4W	
R854	1-249-435-11	CARBON	33K	5%	1/4W	
R855	1-249-441-11	CARBON	100K	5%	1/4W	
		< SWITCH >				
S752	1-554-303-21	SWITCH, TACTILE (FF)				
S753	1-554-303-21	SWITCH, TACTILE (REW)				
S754	1-554-303-21	SWITCH, TACTILE (STOP)				
S755	1-554-303-21	SWITCH, TACTILE (REV)				
S756	1-554-303-21	SWITCH, TACTILE (FWD)				
**********						
*	A-4407-843-A	DECK B BOARD, COMPLETE				
		**********				
		< CONNECTOR >				
* CN704	1-565-486-11	CONNECTOR, BOARD TO BOARD 10P				
		< DIODE >				
D751	8-719-046-39	DIODE	SEL5821A-TH15 (NORMAL)			
D752	8-719-046-39	DIODE	SEL5821A-TH15 (HIGH)			
D753	8-719-046-44	DIODE	SEL5221S (REC)			
D754	8-719-046-39	DIODE	SEL5821A-TH15 (PAUSE)			
D755	8-719-046-43	DIODE	SEL5421E-TP15 (REV)			
D756	8-719-046-43	DIODE	SEL5421E-TP15 (FWD)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R861	1-249-410-11	CARBON	270	5%	1/4W F
R862	1-249-411-11	CARBON	330	5%	1/4W
R863	1-249-413-11	CARBON	470	5%	1/4W F
R864	1-249-414-11	CARBON	560	5%	1/4W F
R865	1-249-416-11	CARBON	820	5%	1/4W F
R866	1-249-417-11	CARBON	1K	5%	1/4W F
R867	1-249-419-11	CARBON	1.5K	5%	1/4W F
R868	1-249-421-11	CARBON	2.2K	5%	1/4W F
R869	1-249-422-11	CARBON	2.7K	5%	1/4W F
R870	1-249-424-11	CARBON	3.9K	5%	1/4W F
R871	1-249-426-11	CARBON	5.6K	5%	1/4W
R872	1-249-401-11	CARBON	47	5%	1/4W F
R873	1-249-401-11	CARBON	47	5%	1/4W F
R874	1-249-401-11	CARBON	47	5%	1/4W F
R875	1-249-401-11	CARBON	47	5%	1/4W F
R876	1-249-401-11	CARBON	47	5%	1/4W F
R877	1-249-401-11	CARBON	47	5%	1/4W F
		< SWITCH >			
S761	1-554-303-21	SWITCH, TACTILE (HIGH)			
S762	1-554-303-21	SWITCH, TACTILE (NORMAL)			
S763	1-554-303-21	SWITCH, TACTILE (REC)			
S764	1-554-303-21	SWITCH, TACTILE (REC PAUSE)			
S765	1-554-303-21	SWITCH, TACTILE (PAUSE)			
S766	1-554-303-21	SWITCH, TACTILE (REW)			
S767	1-554-303-21	SWITCH, TACTILE (FF)			
S768	1-554-303-21	SWITCH, TACTILE (PLAY)			
S769	1-554-303-21	SWITCH, TACTILE (REV)			
S770	1-554-303-21	SWITCH, TACTILE (STOP)			
S771	1-572-624-11	SWITCH, SLIDE (DOLBY NR)			
S772	1-572-625-11	SWITCH, SLIDE (DIRECTION)			
**********					
*	A-4407-838-A	DISPLAY BOARD, COMPLETE (AEP)			
		**********			
*	A-4407-844-A	DISPLAY BOARD, COMPLETE (E,MY,SP,AUS)			
		**********			
*	4-949-935-81	CUSHION (FL)			
*	4-974-291-01	HOLDER, FL TUBE			
		< CAPACITOR >			
C701	1-164-159-21	CERAMIC	0.1uF		50V
C702	1-162-294-31	CERAMIC	0.001uF	10%	50V
C703	1-162-294-31	CERAMIC	0.001uF	10%	50V
C704	1-162-306-11	CERAMIC	0.01uF	20%	16V
C705	1-162-306-11	CERAMIC	0.01uF	20%	16V
C706	1-164-159-21	CERAMIC	0.1uF		50V
C707	1-162-294-31	CERAMIC	0.001uF	10%	50V
C708	1-162-294-31	CERAMIC	0.001uF	10%	50V
C709	1-162-294-31	CERAMIC	0.001uF	10%	50V
C710	1-126-916-11	ELECT	1000uF	20%	6.3V
C711	1-164-159-21	CERAMIC	0.1uF		50V
C712	1-136-165-00	FILM	0.1uF	5%	50V
C713	1-164-159-21	CERAMIC	0.1uF		50V
C714	1-104-396-11	ELECT	10uF	20%	16V
C715	1-126-934-11	ELECT	220uF	20%	10V

Ref. No.	Part No.	Description			Remarks
C717	1-126-963-11	ELECT	4.7uF	20%	50V
C718	1-126-963-11	ELECT	4.7uF	20%	50V
C719	1-126-949-11	ELECT	220uF	20%	35V
C720	1-162-290-31	CERAMIC	470PF	10%	50V
C721	1-162-290-31	CERAMIC	470PF	10%	50V
C722	1-162-290-31	CERAMIC	470PF	10%	50V
C723	1-162-290-31	CERAMIC	470PF	10%	50V
C734	1-162-294-31	CERAMIC	0.001uF	10%	50V
C743	1-104-665-11	ELECT	100uF	20%	10V
		< CONNECTOR >			
* CN701	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P			
CN703	1-766-553-11	PLUG, CONNECTOR 10P			
CN716	1-695-392-31	PIN, CONNECTOR (PC BOARD) 31P			
CN722	1-695-380-31	PIN, CONNECTOR (PC BOARD) 19P			
		< DIODE >			
D701	8-719-991-33	DIODE 1SS133T-77			
D702	8-719-991-33	DIODE 1SS133T-77			
D703	8-719-991-33	DIODE 1SS133T-77			
D704	8-719-991-33	DIODE 1SS133T-77			
D705	8-719-991-33	DIODE 1SS133T-77			
D706	8-719-991-33	DIODE 1SS133T-77			
D707	8-719-991-33	DIODE 1SS133T-77			
D708	8-719-991-33	DIODE 1SS133T-77			
D709	8-719-991-33	DIODE 1SS133T-77			
D710	8-719-118-56	DIODE RD4.7F-T7B1			
D711	8-719-991-33	DIODE 1SS133T-77			
D712	8-719-991-33	DIODE 1SS133T-77			
D713	8-719-991-33	DIODE 1SS133T-77			
D714	8-719-991-33	DIODE 1SS133T-77			
D715	8-719-991-33	DIODE 1SS133T-77			
D716	8-719-991-33	DIODE 1SS133T-77			
D717	8-719-991-33	DIODE 1SS133T-77			
D718	8-719-991-33	DIODE 1SS133T-77			
D801	8-719-058-04	DIODE SEL5223S-TP15 (STANDBY)			
D802	8-719-058-64	DIODE SEL5823A-TP15 (SUPER WOOFWER)			
D803	8-719-058-64	DIODE SEL5823A-TP15 (SUPER WOOFWER)			
D804	8-719-058-64	DIODE SEL5823A-TP15 (DOLBY PRO LOGIC)			
D805	8-719-058-64	DIODE SEL5823A-TP15 (DOLBY PRO LOGIC)			
D811	8-719-058-19	DIODE HLMF-K405-2UL			
D812	8-719-058-19	DIODE HLMF-K405-2UL			
D813	8-719-058-19	DIODE HLMF-K405-2UL			
D814	8-719-058-19	DIODE HLMF-K405-2UL			
D815	8-719-058-19	DIODE HLMF-K405-2UL			
		< FILTER >			
FL701	1-517-666-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC701	8-759-563-14	IC uPD78042FGF-088-3B9			
IC702	8-749-014-66	IC NJL56H400A			
IC703	8-759-165-80	IC PST600C-T			

DISPLAY

Ref. No.	Part No.	Description				Remarks
		< TRANSISTOR >				
Q701	8-729-119-78	TRANSISTOR	2SC403SP-51			
Q702	8-729-029-92	TRANSISTOR	BA1L3M-TP			
Q703	8-729-029-92	TRANSISTOR	BA1L3M-TP			
Q704	8-729-119-78	TRANSISTOR	2SC403SP-51			
Q709	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q710	8-729-900-36	TRANSISTOR	DTC124ES			
Q711	8-729-900-36	TRANSISTOR	DTC124ES			
Q712	8-729-900-36	TRANSISTOR	DTC124ES			
Q713	8-729-900-36	TRANSISTOR	DTC124ES			
Q714	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q715	8-729-900-36	TRANSISTOR	DTC124ES			
Q716	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q717	8-729-900-36	TRANSISTOR	DTC124ES			
Q718	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q719	8-729-900-36	TRANSISTOR	DTC124ES			
Q720	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q721	8-729-900-36	TRANSISTOR	DTC124ES			
		< RESISTOR >				
R700	1-249-429-11	CARBON	10K	5%	1/4W	
R701	1-247-843-11	CARBON	3.3K	5%	1/4W	
R702	1-249-429-11	CARBON	10K	5%	1/4W	
R703	1-249-429-11	CARBON	10K	5%	1/4W	
R704	1-247-903-00	CARBON	1M	5%	1/4W	
R705	1-249-429-11	CARBON	10K	5%	1/4W	
R706	1-249-429-11	CARBON	10K	5%	1/4W	
R707	1-249-429-11	CARBON	10K	5%	1/4W	
R708	1-249-429-11	CARBON	10K	5%	1/4W	
R709	1-249-429-11	CARBON	10K	5%	1/4W	
R710	1-249-429-11	CARBON	10K	5%	1/4W	
R711	1-249-429-11	CARBON	10K	5%	1/4W	
R712	1-249-402-11	CARBON	56	5%	1/4W	F
R713	1-249-402-11	CARBON	56	5%	1/4W	F
R714	1-247-815-91	CARBON	220	5%	1/4W	
R715	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R716	1-249-429-11	CARBON	10K	5%	1/4W (E,MY,SP,AUS)	
R717	1-249-429-11	CARBON	10K	5%	1/4W (AEP)	
R718	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R719	1-249-430-11	CARBON	12K	5%	1/4W	
R720	1-249-429-11	CARBON	10K	5%	1/4W	
R721	1-249-429-11	CARBON	10K	5%	1/4W	
R722	1-249-429-11	CARBON	10K	5%	1/4W	
R724	1-249-429-11	CARBON	10K	5%	1/4W	
R725	1-249-429-11	CARBON	10K	5%	1/4W	
R726	1-249-429-11	CARBON	10K	5%	1/4W	
R727	1-249-429-11	CARBON	10K	5%	1/4W	
R728	1-249-429-11	CARBON	10K	5%	1/4W	
R729	1-249-429-11	CARBON	10K	5%	1/4W	
R730	1-249-429-11	CARBON	10K	5%	1/4W	
R731	1-249-429-11	CARBON	10K	5%	1/4W	
R732	1-249-429-11	CARBON	10K	5%	1/4W	
R733	1-249-429-11	CARBON	10K	5%	1/4W	
R734	1-249-429-11	CARBON	10K	5%	1/4W	
R735	1-249-429-11	CARBON	10K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
R736	1-249-441-11	CARBON	100K	5%	1/4W	
R737	1-249-441-11	CARBON	100K	5%	1/4W	
R740	1-249-441-11	CARBON	100K	5%	1/4W	
R741	1-249-429-11	CARBON	10K	5%	1/4W	
R742	1-249-429-11	CARBON	10K	5%	1/4W	
R743	1-249-429-11	CARBON	10K	5%	1/4W	
R744	1-249-437-11	CARBON	47K	5%	1/4W	
R745	1-249-435-11	CARBON	33K	5%	1/4W	
R746	1-249-429-11	CARBON	10K	5%	1/4W	
R747	1-249-429-11	CARBON	10K	5%	1/4W	
R748	1-249-429-11	CARBON	10K	5%	1/4W	
R749	1-247-807-31	CARBON	100	5%	1/4W	
R750	1-247-807-31	CARBON	100	5%	1/4W	
R751	1-247-807-31	CARBON	100	5%	1/4W	
R752	1-247-807-31	CARBON	100	5%	1/4W	
R753	1-247-807-31	CARBON	100	5%	1/4W	
R754	1-247-807-31	CARBON	100	5%	1/4W	
R755	1-247-807-31	CARBON	100	5%	1/4W	
R756	1-247-807-31	CARBON	100	5%	1/4W	
R757	1-247-807-31	CARBON	100	5%	1/4W	
R758	1-247-807-31	CARBON	100	5%	1/4W	
R759	1-247-807-31	CARBON	100	5%	1/4W	
R760	1-247-807-31	CARBON	100	5%	1/4W	
R761	1-247-807-31	CARBON	100	5%	1/4W	
R762	1-247-807-31	CARBON	100	5%	1/4W	
R763	1-247-807-31	CARBON	100	5%	1/4W	
R764	1-247-807-31	CARBON	100	5%	1/4W	
R765	1-247-807-31	CARBON	100	5%	1/4W	
R766	1-247-807-31	CARBON	100	5%	1/4W	
R767	1-247-807-31	CARBON	100	5%	1/4W	
R768	1-247-807-31	CARBON	100	5%	1/4W	
R769	1-247-807-31	CARBON	100	5%	1/4W	
R770	1-247-807-31	CARBON	100	5%	1/4W	
R771	1-247-807-31	CARBON	100	5%	1/4W	
R772	1-247-807-31	CARBON	100	5%	1/4W	
R773	1-247-807-31	CARBON	100	5%	1/4W	
R774	1-247-807-31	CARBON	100	5%	1/4W	
R775	1-247-807-31	CARBON	100	5%	1/4W	
R777	1-247-807-31	CARBON	100	5%	1/4W	
R778	1-247-807-31	CARBON	100	5%	1/4W	
R779	1-247-807-31	CARBON	100	5%	1/4W	
R780	1-247-807-31	CARBON	100	5%	1/4W	
R781	1-247-807-31	CARBON	100	5%	1/4W	
R782	1-247-807-31	CARBON	100	5%	1/4W	
R783	1-247-807-31	CARBON	100	5%	1/4W	
R784	1-247-807-31	CARBON	100	5%	1/4W	
R785	1-247-807-31	CARBON	100	5%	1/4W	
R786	1-247-807-31	CARBON	100	5%	1/4W	
R787	1-247-807-31	CARBON	100	5%	1/4W	
R788	1-247-807-31	CARBON	100	5%	1/4W	
R789	1-247-807-31	CARBON	100	5%	1/4W	
R790	1-247-807-31	CARBON	100	5%	1/4W	
R791	1-247-807-31	CARBON	100	5%	1/4W	
R792	1-247-807-31	CARBON	100	5%	1/4W	
R793	1-247-807-31	CARBON	100	5%	1/4W	
R794	1-247-807-31	CARBON	100	5%	1/4W	
R795	1-247-807-31	CARBON	100	5%	1/4W	
R796	1-247-807-31	CARBON	100	5%	1/4W	
R797	1-249-429-11	CARBON	10K	5%	1/4W	
R800	1-249-427-11	CARBON	6.8K	5%	1/4W	F

Ref. No.	Part No.	Description			Remarks
R801	1-249-410-11	CARBON	270	5%	1/4W F
R802	1-249-411-11	CARBON	330	5%	1/4W
R803	1-249-413-11	CARBON	470	5%	1/4W F
R813	1-249-441-11	CARBON	100K	5%	1/4W
R814	1-249-441-11	CARBON	100K	5%	1/4W
R815	1-249-441-11	CARBON	100K	5%	1/4W
R816	1-249-441-11	CARBON	100K	5%	1/4W
R817	1-249-441-11	CARBON	100K	5%	1/4W
R818	1-249-441-11	CARBON	100K	5%	1/4W
R819	1-249-441-11	CARBON	100K	5%	1/4W
R820	1-249-427-11	CARBON	6.8K	5%	1/4W F
R821	1-249-410-11	CARBON	270	5%	1/4W F
R822	1-249-411-11	CARBON	330	5%	1/4W
R823	1-249-413-11	CARBON	470	5%	1/4W F
R824	1-249-414-11	CARBON	560	5%	1/4W F
R825	1-249-416-11	CARBON	820	5%	1/4W F
R826	1-249-417-11	CARBON	1K	5%	1/4W F
R827	1-249-419-11	CARBON	1.5K	5%	1/4W F
R828	1-249-421-11	CARBON	2.2K	5%	1/4W F
R829	1-249-422-11	CARBON	2.7K	5%	1/4W F
R830	1-249-424-11	CARBON	3.9K	5%	1/4W F
R831	1-249-426-11	CARBON	5.6K	5%	1/4W
R832	1-249-429-11	CARBON	10K	5%	1/4W
R833	1-249-432-11	CARBON	18K	5%	1/4W
R834	1-249-435-11	CARBON	33K	5%	1/4W
R835	1-249-441-11	CARBON	100K	5%	1/4W
R840	1-249-427-11	CARBON	6.8K	5%	1/4W F
R841	1-249-410-11	CARBON	270	5%	1/4W F
R842	1-249-411-11	CARBON	330	5%	1/4W
R843	1-249-413-11	CARBON	470	5%	1/4W F
R844	1-249-414-11	CARBON	560	5%	1/4W F
R845	1-249-416-11	CARBON	820	5%	1/4W F
R846	1-249-417-11	CARBON	1K	5%	1/4W F
R847	1-249-419-11	CARBON	1.5K	5%	1/4W F
R848	1-249-421-11	CARBON	2.2K	5%	1/4W F
R849	1-249-422-11	CARBON	2.7K	5%	1/4W F
R850	1-249-424-11	CARBON	3.9K	5%	1/4W F
R860	1-249-427-11	CARBON	6.8K	5%	1/4W F
R879	1-249-401-11	CARBON	47	5%	1/4W F
R880	1-249-401-11	CARBON	47	5%	1/4W F
R881	1-249-401-11	CARBON	47	5%	1/4W F
R882	1-249-425-11	CARBON	4.7K	5%	1/4W F
R883	1-249-425-11	CARBON	4.7K	5%	1/4W F
R884	1-249-425-11	CARBON	4.7K	5%	1/4W F
R885	1-249-425-11	CARBON	4.7K	5%	1/4W F
R886	1-249-425-11	CARBON	4.7K	5%	1/4W F
R887	1-249-425-11	CARBON	4.7K	5%	1/4W F
R888	1-249-425-11	CARBON	4.7K	5%	1/4W F
R889	1-249-425-11	CARBON	4.7K	5%	1/4W F
R890	1-249-441-11	CARBON	100K	5%	1/4W
R891	1-249-441-11	CARBON	100K	5%	1/4W
R892	1-249-441-11	CARBON	100K	5%	1/4W
R893	1-249-441-11	CARBON	100K	5%	1/4W
R894	1-249-441-11	CARBON	100K	5%	1/4W
R895	1-249-441-11	CARBON	100K	5%	1/4W
R896	1-249-441-11	CARBON	100K	5%	1/4W
R897	1-249-441-11	CARBON	100K	5%	1/4W
R898	1-249-441-11	CARBON	100K	5%	1/4W
R899	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
		< VARIABLE RESISTOR >			
RV701	1-473-392-11	ENCODER, ROTARY (MASTER VOLUME)			
		< SWITCH >			
S702	1-554-303-21	SWITCH, TACTILE (MEMORY)			
S703	1-554-303-21	SWITCH, TACTILE (>10)			
S704	1-554-303-21	SWITCH, TACTILE (0/10)			
S721	1-554-303-21	SWITCH, TACTILE (DOLBY)			
S722	1-554-303-21	SWITCH, TACTILE (HALL)			
S723	1-554-303-21	SWITCH, TACTILE (SIMULATED)			
S724	1-554-303-21	SWITCH, TACTILE (-)			
S725	1-554-303-21	SWITCH, TACTILE (+)			
S726	1-554-303-21	SWITCH, TACTILE (TONE)			
S727	1-554-303-21	SWITCH, TACTILE (CENTER)			
S728	1-554-303-21	SWITCH, TACTILE (REAR)			
S729	1-554-303-21	SWITCH, TACTILE (WOOFER)			
S730	1-554-303-21	SWITCH, TACTILE (WOOFER ON/OFF)			
S731	1-554-303-21	SWITCH, TACTILE (GAME)			
S732	1-554-303-21	SWITCH, TACTILE (MOVIE)			
S733	1-554-303-21	SWITCH, TACTILE (CLASSIC)			
S734	1-554-303-21	SWITCH, TACTILE (POPS)			
S735	1-554-303-21	SWITCH, TACTILE (ROCK)			
S736	1-554-303-21	SWITCH, TACTILE (CENTER MODE)			
S741	1-554-303-21	SWITCH, TACTILE (MEMORY SCAN)			
S742	1-554-303-21	SWITCH, TACTILE (STEREO/MONO)			
S743	1-554-303-21	SWITCH, TACTILE (TUNING -)			
S744	1-554-303-21	SWITCH, TACTILE (TUNING +)			
S745	1-554-303-21	SWITCH, TACTILE (BAND)			
S746	1-554-303-21	SWITCH, TACTILE (PHONO)			
S747	1-554-303-21	SWITCH, TACTILE (TUNER)			
S748	1-554-303-21	SWITCH, TACTILE (CD)			
S749	1-554-303-21	SWITCH, TACTILE (TAPE)			
S750	1-554-303-21	SWITCH, TACTILE (VIDE0 2)			
S751	1-554-303-21	SWITCH, TACTILE (VIDEO 1)			
		< VIBRATOR >			
X701	1-760-489-11	VIBRATOR, CERAMIC 1MHz			
**********					
*	1-669-780-11	HP BOARD			
		********			
*	1-669-772-11	SUB HP BOARD			
		< CAPACITOR >			
C751	1-164-159-21	CERAMIC	0.1uF		50V
C752	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C753	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C754	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN749	1-564-520-11	PLUG, CONNECTOR 5P			
		< JACK >			
J701	1-569-113-11	JACK, LARGE TYPE (PHONES)			
**********					

LEAF SWITCH | MAIN

Ref. No.	Part No.	Description			Remarks
*	1-650-669-11	LEAF SWITCH BOARD			
		**********			
		< CONNECTOR >			
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P			
CN1001	1-695-372-31	PIN, CONNECTOR (PC BOARD) 11P			
		< TRANSISTOR >			
Q1001	8-749-010-90	TRANSISTOR PHOTO REFLECTOR			NJL5165KA-H
Q1002	8-749-010-90	TRANSISTOR PHOTO REFLECTOR			NJL5165KA-H
		< RESISTOR >			
R1001	1-247-818-11	CARBON	300	5%	1/4W
R1002	1-247-820-11	CARBON	360	5%	1/4W
R1003	1-249-414-11	CARBON	560	5%	1/4W F
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
		< SWITCH >			
S1001	1-692-832-11	SWITCH, PUSH (1 KEY)(A PLAY)			
S1002	1-692-832-11	SWITCH, PUSH (1 KEY)(B PLAY)			
S1004	1-571-281-21	SWITCH, LEAF (A HALF)			
S1005	1-571-281-21	SWITCH, LEAF (A CrO2)			
S1006	1-572-248-11	SWITCH, LEAF (REC A)			
S1007	1-572-248-11	SWITCH, LEAF (B HALF)			
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)			
S1009	1-571-281-21	SWITCH, LEAF (REC B)			
**********					
*	A-4407-404-A	MAIN BOARD, COMPLETE (AEP)			
		**********			
*	A-4407-403-A	MAIN BOARD, COMPLETE (E,MY,SP,AUS)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C101	1-162-286-21	CERAMIC	220PF	10%	50V
C102	1-162-286-21	CERAMIC	220PF	10%	50V
C103	1-162-286-21	CERAMIC	220PF	10%	50V
C104	1-162-286-21	CERAMIC	220PF	10%	50V
C105	1-162-286-21	CERAMIC	220PF	10%	50V
C106	1-162-286-21	CERAMIC	220PF	10%	50V
C107	1-126-963-11	ELECT	4.7uF	20%	50V
C108	1-162-282-31	CERAMIC	100PF	10%	50V
C109	1-126-964-11	ELECT	10uF	20%	50V
C110	1-130-480-00	MYLAR	0.0056uF	5%	50V
C111	1-130-473-00	MYLAR	0.0015uF	5%	50V
C112	1-126-960-11	ELECT	1uF	20%	50V
C113	1-126-933-11	ELECT	100uF	20%	16V
C115	1-126-964-11	ELECT	10uF	20%	50V
C116	1-126-961-11	ELECT	2.2uF	20%	50V
C117	1-136-165-00	FILM	0.1uF	5%	50V
C118	1-136-165-00	FILM	0.1uF	5%	50V
C120	1-126-963-11	ELECT	4.7uF	20%	50V
C121	1-126-960-11	ELECT	1uF	20%	50V
C122	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C124	1-126-961-11	ELECT	2.2uF	20%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C132	1-126-961-11	ELECT	2.2uF	20%	50V
C201	1-162-286-21	CERAMIC	220PF	10%	50V
C202	1-162-286-21	CERAMIC	220PF	10%	50V
C203	1-162-286-21	CERAMIC	220PF	10%	50V
C204	1-162-286-21	CERAMIC	220PF	10%	50V
C205	1-162-286-21	CERAMIC	220PF	10%	50V
C206	1-162-286-21	CERAMIC	220PF	10%	50V
C207	1-126-963-11	ELECT	4.7uF	20%	50V
C208	1-162-282-31	CERAMIC	100PF	10%	50V
C209	1-126-964-11	ELECT	10uF	20%	50V
C210	1-130-480-00	MYLAR	0.0056uF	5%	50V
C211	1-130-473-00	MYLAR	0.0015uF	5%	50V
C212	1-126-960-11	ELECT	1uF	20%	50V
C213	1-126-933-11	ELECT	100uF	20%	16V
C214	1-164-159-21	CERAMIC	0.1uF		50V
C215	1-126-964-11	ELECT	10uF	20%	50V
C216	1-126-961-11	ELECT	2.2uF	20%	50V
C217	1-136-165-00	FILM	0.1uF	5%	50V
C218	1-136-165-00	FILM	0.1uF	5%	50V
C220	1-126-963-11	ELECT	4.7uF	20%	50V
C221	1-126-960-11	ELECT	1uF	20%	50V
C222	1-126-964-11	ELECT	10uF	20%	50V
C224	1-126-961-11	ELECT	2.2uF	20%	50V
C225	1-126-964-11	ELECT	10uF	20%	50V
C232	1-126-961-11	ELECT	2.2uF	20%	50V
C300	1-126-961-11	ELECT	2.2uF	20%	50V
C301	1-126-963-11	ELECT	4.7uF	20%	50V
C302	1-126-959-11	ELECT	0.47uF	20%	50V
C303	1-126-964-11	ELECT	10uF	20%	50V
C304	1-126-964-11	ELECT	10uF	20%	50V
C305	1-126-964-11	ELECT	10uF	20%	50V
C306	1-126-964-11	ELECT	10uF	20%	50V
C307	1-126-934-11	ELECT	220uF	20%	10V
C308	1-126-934-11	ELECT	220uF	20%	10V
C309	1-164-159-21	CERAMIC	0.1uF		50V
C310	1-126-961-11	ELECT	2.2uF	20%	50V
C311	1-126-934-11	ELECT	220uF	20%	10V
C312	1-126-961-11	ELECT	2.2uF	20%	50V
C313	1-126-960-11	ELECT	1uF	20%	50V
C314	1-126-959-11	ELECT	0.47uF	20%	50V
C315	1-126-934-11	ELECT	220uF	20%	10V
C316	1-164-159-21	CERAMIC	0.1uF		50V
C317	1-136-165-00	FILM	0.1uF	5%	50V
C318	1-126-964-11	ELECT	10uF	20%	50V
C319	1-126-961-11	ELECT	2.2uF	20%	50V
C320	1-126-964-11	ELECT	10uF	20%	50V
C321	1-136-165-00	FILM	0.1uF	5%	50V
C322	1-126-961-11	ELECT	2.2uF	20%	50V
C323	1-124-252-00	ELECT	0.33uF	20%	50V
C324	1-126-959-11	ELECT	0.47uF	20%	50V
C325	1-130-494-11	MYLAR	0.082uF	5%	50V
C326	1-137-367-11	FILM	0.0033uF	5%	50V
C327	1-130-494-11	MYLAR	0.082uF	5%	50V
C328	1-164-159-21	CERAMIC	0.1uF		50V
C329	1-126-934-11	ELECT	220uF	20%	10V
C330	1-130-469-00	MYLAR	680PF	5%	50V
C331	1-130-491-00	MYLAR	0.047uF	5%	50V
C332	1-130-487-00	MYLAR	0.022uF	5%	50V

Ref. No.	Part No.	Description			Remarks
C333	1-136-173-00	FILM	0.47uF	5%	50V
C334	1-104-664-11	ELECT	47uF	20%	16V
C335	1-126-960-11	ELECT	1uF	20%	50V
C336	1-128-551-11	ELECT	22uF	20%	25V
C337	1-164-159-21	CERAMIC	0.1uF		50V
C338	1-126-934-11	ELECT	220uF	20%	10V
C339	1-126-959-11	ELECT	0.47uF	20%	50V
C340	1-126-963-11	ELECT	4.7uF	20%	50V
C341	1-126-959-11	ELECT	0.47uF	20%	50V
C342	1-126-963-11	ELECT	4.7uF	20%	50V
C343	1-136-167-00	FILM	0.15uF	5%	50V
C344	1-126-962-11	ELECT	3.3uF	20%	50V
C345	1-136-167-00	FILM	0.15uF	5%	50V
C346	1-136-167-00	FILM	0.15uF	5%	50V
C347	1-126-962-11	ELECT	3.3uF	20%	50V
C348	1-136-167-00	FILM	0.15uF	5%	50V
C349	1-126-963-11	ELECT	4.7uF	20%	50V
C400	1-126-961-11	ELECT	2.2uF	20%	50V
C401	1-126-933-11	ELECT	100uF	20%	16V
C402	1-128-551-11	ELECT	22uF	20%	25V
C403	1-162-294-31	CERAMIC	0.001uF	10%	50V
C404	1-137-193-11	FILM	0.39uF	5%	50V
C405	1-126-960-11	ELECT	1uF	20%	50V
C410	1-126-964-11	ELECT	10uF	20%	50V
C411	1-128-551-11	ELECT	22uF	20%	25V
C412	1-126-960-11	ELECT	1uF	20%	50V
C413	1-126-960-11	ELECT	1uF	20%	50V
C414	1-137-367-11	FILM	0.0033uF	5%	50V
C415	1-130-487-00	MYLAR	0.022uF	5%	50V
C416	1-126-960-11	ELECT	1uF	20%	50V
C420	1-126-964-11	ELECT	10uF	20%	50V
C421	1-128-551-11	ELECT	22uF	20%	25V
C422	1-126-960-11	ELECT	1uF	20%	50V
C424	1-137-367-11	FILM	0.0033uF	5%	50V
C425	1-130-487-00	MYLAR	0.022uF	5%	50V
C426	1-126-960-11	ELECT	1uF	20%	50V
C435	1-126-960-11	ELECT	1uF	20%	50V
C436	1-126-964-11	ELECT	10uF	20%	50V
C437	1-164-159-21	CERAMIC	0.1uF		50V
C444	1-136-177-00	FILM	1uF	5%	50V
C445	1-126-934-11	ELECT	220uF	20%	10V
C446	1-130-483-00	MYLAR	0.01uF	5%	50V
C447	1-164-159-21	CERAMIC	0.1uF		50V
C448	1-164-159-21	CERAMIC	0.1uF		50V
C449	1-162-286-21	CERAMIC	220PF	10%	50V
C501	1-104-665-11	ELECT	100uF	20%	10V
C502	1-104-665-11	ELECT	100uF	20%	10V
C511	1-137-368-11	FILM	0.0047uF	5%	50V
C512	1-162-306-11	CERAMIC	0.01uF	20%	16V
C513	1-136-165-00	FILM	0.1uF	5%	50V
C515	1-126-960-11	ELECT	1uF	20%	50V
C516	1-126-964-11	ELECT	10uF	20%	50V
C518	1-162-290-31	CERAMIC	470PF	10%	50V
C521	1-137-368-11	FILM	0.0047uF	5%	50V
C522	1-162-306-11	CERAMIC	0.01uF	20%	16V
C523	1-136-165-00	FILM	0.1uF	5%	50V
C525	1-126-960-11	ELECT	1uF	20%	50V
C526	1-126-964-11	ELECT	10uF	20%	50V
C528	1-162-290-31	CERAMIC	470PF	10%	50V
C531	1-136-165-00	FILM	0.1uF	5%	50V
C532	1-136-165-00	FILM	0.1uF	5%	50V
C533	1-126-767-11	ELECT	1000uF	20%	16V
C545	1-126-964-11	ELECT	10uF	20%	50V
C546	1-126-964-11	ELECT	10uF	20%	50V
C547	1-162-306-11	CERAMIC	0.01uF	20%	16V
C548	1-162-306-11	CERAMIC	0.01uF	20%	16V
C551	1-162-294-31	CERAMIC	0.001uF	10%	50V
C608	1-137-193-11	FILM	0.39uF	5%	50V
C610	1-126-959-11	ELECT	0.47uF	20%	50V
C611	1-136-166-00	FILM	0.12uF	5%	50V
C612	1-126-964-11	ELECT	10uF	20%	50V
C613	1-126-964-11	ELECT	10uF	20%	50V
C614	1-104-665-11	ELECT	100uF	20%	10V
C615	1-126-964-11	ELECT	10uF	20%	50V
C616	1-126-964-11	ELECT	10uF	20%	50V
C953	1-126-947-11	ELECT	47uF	20%	35V
C954	1-126-953-11	ELECT	2200uF	20%	35V
C969	1-126-964-11	ELECT	10uF	20%	50V
C970	1-104-664-11	ELECT	47uF	20%	16V
C979	1-126-964-11	ELECT	10uF	20%	50V
C980	1-126-964-11	ELECT	10uF	20%	50V
C981	1-126-925-11	ELECT	470uF	20%	10V
C982	1-126-925-11	ELECT	470uF	20%	10V
C989	1-126-940-11	ELECT	330uF	20%	25V
C990	1-126-940-11	ELECT	330uF	20%	25V
C991	1-162-306-11	CERAMIC	0.01uF	20%	16V
C992	1-126-959-11	ELECT	0.47uF	20%	50V

< CONNECTOR >

CN101	1-568-845-11	PIN, CONNECTOR (PC BOARD) 31P	
CN102	1-695-342-31	PIN, CONNECTOR (PC BOARD) 19P	
CN103	1-695-338-11	PIN, CONNECTOR (PC BOARD) 15P (AEP)	
CN103	1-695-336-31	PIN, CONNECTOR (PC BOARD) 13P	(E,MY,SP,AUS)
CN301	1-770-731-11	CONNECTOR, BOARD TO BOARD 12P	
CN302	1-770-731-11	CONNECTOR, BOARD TO BOARD 12P	
CN501	1-695-344-11	PIN, CONNECTOR (PC BOARD) 21P	
CN502	1-695-334-11	PIN, CONNECTOR (PC BOARD) 11P	

< DIODE >

D618	8-719-991-33	DIODE 1SS133T-77
D621	8-719-991-33	DIODE 1SS133T-77
D951	8-719-935-78	DIODE HZS12A3LTD
D963	8-719-935-69	DIODE HZS11B1LTD
D964	8-719-991-33	DIODE 1SS133T-77
D965	8-719-991-33	DIODE 1SS133T-77

< EARTH >

* EB301	1-537-738-21	TERMINAL, EARTH

< FERRITE BEAD >

FB341	1-412-473-21	INDUCTOR 0UH

< IC >

IC300	8-759-526-39	IC LV1041M
IC301	8-759-634-51	IC M5218AP
IC302	8-759-805-14	IC LC7822
IC303	8-759-634-51	IC M5218AP
IC401	8-759-443-67	IC LC75373ED

MAIN

Ref. No.	Part No.	Description	Remarks
IC501	8-759-363-21	IC HA12203	
IC502	8-759-822-09	IC LB1641	
IC601	8-759-634-51	IC M5218AP	
IC602	8-759-634-51	IC M5218AP	
IC951	8-759-604-86	IC M5F7807L	
IC952	8-759-604-90	IC M5F7907L	
		< JACK >	
J101	1-774-411-11	JACK, PIN 6P (PHONO/CD/AUDIO OUT)	
J102	1-695-188-31	JACK, PIN 4P (AUDIO IN)	
		< COIL >	
L341	1-410-521-11	INDUCTOR 100uH	
L951	1-410-521-11	INDUCTOR 100uH	
L952	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q121	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q131	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q221	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q231	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q330	8-729-115-44	TRANSISTOR BNIF4M	
Q331	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q332	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q431	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q432	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q449	8-729-900-63	TRANSISTOR DTA124ES	
Q531	8-729-900-89	TRANSISTOR DTC144ES	
Q532	8-729-801-93	TRANSISTOR 2SD1387	
Q533	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q534	8-729-900-80	TRANSISTOR DTC114ES	
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q603	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q951	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q952	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q956	8-729-021-82	TRANSISTOR 2SD2396K	
Q957	8-729-202-67	TRANSISTOR 2SK246-GR3	
		< RESISTOR >	

Ref. No.	Part No.	Description			Remarks
R101	1-249-417-11	CARBON	1K	5%	1/4W F
R102	1-249-417-11	CARBON	1K	5%	1/4W F
R103	1-247-843-11	CARBON	3.3K	5%	1/4W
R104	1-249-425-11	CARBON	4.7K	5%	1/4W F
R105	1-249-427-11	CARBON	6.8K	5%	1/4W F
R106	1-249-417-11	CARBON	1K	5%	1/4W F
R107	1-249-417-11	CARBON	1K	5%	1/4W F
R108	1-249-437-11	CARBON	47K	5%	1/4W
R109	1-249-415-11	CARBON	680	5%	1/4W F
R110	1-247-897-11	CARBON	560K	5%	1/4W
R111	1-249-437-11	CARBON	47K	5%	1/4W
R112	1-249-441-11	CARBON	100K	5%	1/4W
R113	1-247-815-91	CARBON	220	5%	1/4W
R114	1-247-815-91	CARBON	220	5%	1/4W
R115	1-247-807-31	CARBON	100	5%	1/4W
R119	1-249-441-11	CARBON	100K	5%	1/4W
R120	1-249-421-11	CARBON	2.2K	5%	1/4W F
R121	1-247-863-91	CARBON	22K	5%	1/4W
R122	1-249-441-11	CARBON	100K	5%	1/4W
R123	1-249-417-11	CARBON	1K	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R124	1-249-441-11	CARBON	100K	5%	1/4W
R125	1-247-863-91	CARBON	22K	5%	1/4W
R126	1-247-840-00	CARBON	2.4K	5%	1/4W
R127	1-249-417-11	CARBON	1K	5%	1/4W F
R128	1-249-428-11	CARBON	8.2K	5%	1/4W F
R129	1-249-421-11	CARBON	2.2K	5%	1/4W F
R131	1-249-429-11	CARBON	10K	5%	1/4W
R132	1-249-421-11	CARBON	2.2K	5%	1/4W F
R134	1-249-429-11	CARBON	10K	5%	1/4W
R201	1-249-417-11	CARBON	1K	5%	1/4W F
R202	1-249-417-11	CARBON	1K	5%	1/4W F
R203	1-247-843-11	CARBON	3.3K	5%	1/4W
R204	1-249-425-11	CARBON	4.7K	5%	1/4W F
R205	1-249-427-11	CARBON	6.8K	5%	1/4W F
R206	1-249-417-11	CARBON	1K	5%	1/4W F
R207	1-249-417-11	CARBON	1K	5%	1/4W F
R208	1-249-437-11	CARBON	47K	5%	1/4W
R209	1-249-415-11	CARBON	680	5%	1/4W F
R210	1-247-897-11	CARBON	560K	5%	1/4W
R211	1-249-437-11	CARBON	47K	5%	1/4W
R212	1-249-441-11	CARBON	100K	5%	1/4W
R213	1-247-815-91	CARBON	220	5%	1/4W
R214	1-247-815-91	CARBON	220	5%	1/4W
R215	1-247-807-31	CARBON	100	5%	1/4W
R219	1-249-441-11	CARBON	100K	5%	1/4W
R220	1-249-421-11	CARBON	2.2K	5%	1/4W F
R221	1-247-863-91	CARBON	22K	5%	1/4W
R222	1-249-441-11	CARBON	100K	5%	1/4W
R223	1-249-417-11	CARBON	1K	5%	1/4W F
R224	1-249-441-11	CARBON	100K	5%	1/4W
R225	1-247-863-91	CARBON	22K	5%	1/4W
R226	1-247-840-00	CARBON	2.4K	5%	1/4W
R227	1-249-417-11	CARBON	1K	5%	1/4W F
R228	1-249-428-11	CARBON	8.2K	5%	1/4W F
R229	1-249-421-11	CARBON	2.2K	5%	1/4W F
R231	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-421-11	CARBON	2.2K	5%	1/4W F
R234	1-249-429-11	CARBON	10K	5%	1/4W
R301	1-249-431-11	CARBON	15K	5%	1/4W
R302	1-247-863-91	CARBON	22K	5%	1/4W
R303	1-249-436-11	CARBON	39K	5%	1/4W
R304	1-247-903-00	CARBON	1M	5%	1/4W
R305	1-247-815-91	CARBON	220	5%	1/4W
R306	1-247-807-31	CARBON	100	5%	1/4W
R307	1-247-807-31	CARBON	100	5%	1/4W
R308	1-247-807-31	CARBON	100	5%	1/4W
R309	1-247-807-31	CARBON	100	5%	1/4W
R310	1-247-843-11	CARBON	3.3K	5%	1/4W
R311	1-247-844-11	CARBON	3.6K	5%	1/4W
R312	1-249-425-11	CARBON	4.7K	5%	1/4W F
R320	1-249-429-11	CARBON	10K	5%	1/4W
R321	1-249-430-11	CARBON	12K	5%	1/4W
R322	1-247-863-91	CARBON	22K	5%	1/4W
R323	1-249-417-11	CARBON	1K	5%	1/4W F
R324	1-247-863-91	CARBON	22K	5%	1/4W
R325	1-249-441-11	CARBON	100K	5%	1/4W
R326	1-249-417-11	CARBON	1K	5%	1/4W F
R327	1-249-441-11	CARBON	100K	5%	1/4W
R328	1-249-421-11	CARBON	2.2K	5%	1/4W F
R331	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R332	1-249-421-11	CARBON	2.2K	5%	1/4W F
R334	1-249-429-11	CARBON	10K	5%	1/4W
R381	1-249-417-11	CARBON	1K	5%	1/4W F
R382	1-247-815-91	CARBON	220	5%	1/4W
R383	1-247-815-91	CARBON	220	5%	1/4W
R415	1-249-411-11	CARBON	330	5%	1/4W
R417	1-249-411-11	CARBON	330	5%	1/4W
R421	1-249-430-11	CARBON	12K	5%	1/4W
R422	1-247-863-91	CARBON	22K	5%	1/4W
R423	1-249-417-11	CARBON	1K	5%	1/4W F
R424	1-247-863-91	CARBON	22K	5%	1/4W
R425	1-249-441-11	CARBON	100K	5%	1/4W
R426	1-249-417-11	CARBON	1K	5%	1/4W F
R427	1-249-441-11	CARBON	100K	5%	1/4W
R428	1-249-421-11	CARBON	2.2K	5%	1/4W F
R431	1-249-441-11	CARBON	100K	5%	1/4W
R432	1-249-421-11	CARBON	2.2K	5%	1/4W F
R434	1-249-429-11	CARBON	10K	5%	1/4W
R445	1-249-437-11	CARBON	47K	5%	1/4W
R449	1-247-863-91	CARBON	22K	5%	1/4W
R511	1-247-863-91	CARBON	22K	5%	1/4W
R512	1-249-428-11	CARBON	8.2K	5%	1/4W F
R513	1-249-419-11	CARBON	1.5K	5%	1/4W F
R518	1-249-430-11	CARBON	12K	5%	1/4W
R519	1-249-426-11	CARBON	5.6K	5%	1/4W
R521	1-249-435-11	CARBON	33K	5%	1/4W
R522	1-249-428-11	CARBON	8.2K	5%	1/4W F
R523	1-249-419-11	CARBON	1.5K	5%	1/4W F
R530	1-249-421-11	CARBON	2.2K	5%	1/4W F
R531	1-249-418-11	CARBON	1.2K	5%	1/4W F
R532	1-249-441-11	CARBON	100K	5%	1/4W
R533	1-249-429-11	CARBON	10K	5%	1/4W
R534	1-249-411-11	CARBON	330	5%	1/4W
R535	1-249-427-11	CARBON	6.8K	5%	1/4W F
R536	1-249-425-11	CARBON	4.7K	5%	1/4W F
R537	1-249-425-11	CARBON	4.7K	5%	1/4W F
R538	1-249-437-11	CARBON	47K	5%	1/4W
R539	1-249-436-11	CARBON	39K	5%	1/4W
R540	1-249-436-11	CARBON	39K	5%	1/4W
R541	1-249-437-11	CARBON	47K	5%	1/4W
R542	1-249-425-11	CARBON	4.7K	5%	1/4W F
R543	1-249-417-11	CARBON	1K	5%	1/4W F
R544	1-249-421-11	CARBON	2.2K	5%	1/4W F
R545	1-249-425-11	CARBON	4.7K	5%	1/4W F
R546	1-249-429-11	CARBON	10K	5%	1/4W
R547	1-249-429-11	CARBON	10K	5%	1/4W
R548	1-249-441-11	CARBON	100K	5%	1/4W
R557	1-249-432-11	CARBON	18K	5%	1/4W
R558	1-249-429-11	CARBON	10K	5%	1/4W
R617	1-249-429-11	CARBON	10K	5%	1/4W
R619	1-249-441-11	CARBON	100K	5%	1/4W
R620	1-249-415-11	CARBON	680	5%	1/4W F
R621	1-247-883-00	CARBON	150K	5%	1/4W
R623	1-249-427-11	CARBON	6.8K	5%	1/4W F
R624	1-249-432-11	CARBON	18K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R629	1-249-429-11	CARBON	10K	5%	1/4W
R630	1-249-429-11	CARBON	10K	5%	1/4W
R631	1-249-429-11	CARBON	10K	5%	1/4W
R632	1-249-429-11	CARBON	10K	5%	1/4W
R633	1-249-429-11	CARBON	10K	5%	1/4W
R635	1-249-441-11	CARBON	100K	5%	1/4W
R636	1-249-429-11	CARBON	10K	5%	1/4W
R637	1-249-421-11	CARBON	2.2K	5%	1/4W F
R639	1-247-815-91	CARBON	220	5%	1/4W
R951	1-249-421-11	CARBON	2.2K	5%	1/4W F
R952	1-249-421-11	CARBON	2.2K	5%	1/4W F
R961	1-249-421-11	CARBON	2.2K	5%	1/4W F
R962	1-249-421-11	CARBON	2.2K	5%	1/4W F
		< VARIABLE RESISTOR >			
RV511	1-241-761-11	RES, ADJ, CARBON 1K			
RV521	1-241-761-11	RES, ADJ, CARBON 1K			
		< VIBRATOR >			
X301	1-579-952-21	VIBRATOR, CERAMIC 8MHz			
**********					
*	A-4407-839-A	POWER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C151	1-126-963-11	ELECT	4.7uF	20%	50V
C152	1-162-290-31	CERAMIC	470PF	10%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V
C155	1-102-233-00	CERAMIC	33PF	10%	500V
C156	1-104-664-11	ELECT	47uF	20%	16V
C161	1-126-934-11	ELECT	220uF	20%	10V
C162	1-126-965-11	ELECT	22uF	20%	50V
C176	1-162-286-21	CERAMIC	220PF	10%	50V
C177	1-136-157-00	FILM	0.022uF	5%	50V
C181	1-136-165-00	FILM	0.1uF	5%	50V
C181	1-164-159-21	CERAMIC	0.1uF		50V
C182	1-162-286-21	CERAMIC	220PF	10%	50V
C185	1-136-157-00	FILM	0.022uF	5%	50V
C186	1-137-393-11	FILM	0.01uF	5%	100V
C187	1-164-159-21	CERAMIC	0.1uF		50V
C251	1-126-963-11	ELECT	4.7uF	20%	50V
C252	1-162-290-31	CERAMIC	470PF	10%	50V
C253	1-126-964-11	ELECT	10uF	20%	50V
C255	1-102-233-00	CERAMIC	33PF	10%	500V
C256	1-104-664-11	ELECT	47uF	20%	16V
C277	1-136-157-00	FILM	0.022uF	5%	50V
C282	1-162-286-21	CERAMIC	220PF	10%	50V
C285	1-136-157-00	FILM	0.022uF	5%	50V
C286	1-137-393-11	FILM	0.01uF	5%	100V
C287	1-164-159-21	CERAMIC	0.1uF		50V
C351	1-126-963-11	ELECT	4.7uF	20%	50V
C352	1-162-294-31	CERAMIC	0.001uF	10%	50V
C353	1-162-282-31	CERAMIC	100PF	10%	50V
C356	1-126-964-11	ELECT	10uF	20%	50V
C357	1-126-964-11	ELECT	10uF	20%	50V

POWER

Ref. No.	Part No.	Description			Remarks
C358	1-136-175-00	FILM	0.68uF	5%	50V
C359	1-136-165-00	FILM	0.1uF	5%	50V
C360	1-162-290-31	CERAMIC	470PF	10%	50V
C376	1-162-286-21	CERAMIC	220PF	10%	50V
C385	1-136-157-00	FILM	0.022uF	5%	50V
C386	1-164-159-21	CERAMIC	0.1uF		50V
C451	1-126-963-11	ELECT	4.7uF	20%	50V
C452	1-162-294-31	CERAMIC	0.001uF	10%	50V
C453	1-162-282-31	CERAMIC	100PF	10%	50V
C456	1-126-964-11	ELECT	10uF	20%	50V
C457	1-126-964-11	ELECT	10uF	20%	50V
C458	1-136-175-00	FILM	0.68uF	5%	50V
C459	1-136-165-00	FILM	0.1uF	5%	50V
C460	1-162-290-31	CERAMIC	470PF	10%	50V
C485	1-136-157-00	FILM	0.022uF	5%	50V
C486	1-164-159-21	CERAMIC	0.1uF		50V
C651	1-126-963-11	ELECT	4.7uF	20%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-126-934-11	ELECT	220uF	20%	10V
C654	1-162-194-31	CERAMIC	3.9PF	10%	50V
C655	1-102-822-00	CERAMIC	390PF	5%	50V
C656	1-102-233-00	CERAMIC	33PF	10%	500V
C657	1-126-948-11	ELECT	100uF	20%	35V
C658	1-126-948-11	ELECT	100uF	20%	35V
C660	1-104-664-11	ELECT	47uF	20%	16V
C661	1-136-157-00	FILM	0.022uF	5%	50V
C670	1-162-286-21	CERAMIC	220PF	10%	50V
C686	1-164-159-21	CERAMIC	0.1uF		50V
C921	1-126-934-11	ELECT	220uF	20%	10V
C922	1-128-552-51	ELECT	47uF	20%	63V
C923	1-128-552-51	ELECT	47uF	20%	63V
C951	1-104-482-11	ELECT	4700uF	20%	63V
C952	1-104-482-11	ELECT	4700uF	20%	63V
C953	1-137-401-11	FILM	0.22uF	5%	100V
C954	1-137-401-11	FILM	0.22uF	5%	100V
C955	1-128-576-11	ELECT	100uF	20%	63V
C956	1-126-964-11	ELECT	10uF	20%	50V
C957	1-126-964-11	ELECT	10uF	20%	50V
C961	1-126-955-11	ELECT	4700uF	20%	35V
C962	1-126-955-11	ELECT	4700uF	20%	35V
C963	1-136-169-00	FILM	0.22uF	5%	50V
C964	1-136-169-00	FILM	0.22uF	5%	50V
C965	1-101-005-00	CERAMIC	22000PF		50V
C966	1-101-005-00	CERAMIC	22000PF		50V
C967	1-126-953-11	ELECT	2200uF	20%	35V
C968	1-126-953-11	ELECT	2200uF	20%	35V
		< CONNECTOR >			
* CN151	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P			
* CN152	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P			
CN251	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
* CN951	1-691-774-11	PLUG (MICRO CONNECTOR) 12P			
		< DIODE >			
D151	8-719-991-33	DIODE 1SS133T-77			
D152	8-719-991-33	DIODE 1SS133T-77			
D161	8-719-991-33	DIODE 1SS133T-77			
D162	8-719-991-33	DIODE 1SS133T-77			
D251	8-719-991-33	DIODE 1SS133T-77			

Ref. No.	Part No.	Description	Remarks
D252	8-719-991-33	DIODE 1SS133T-77	
D351	8-719-991-33	DIODE 1SS133T-77	
D352	8-719-991-33	DIODE 1SS133T-77	
D451	8-719-991-33	DIODE 1SS133T-77	
D452	8-719-991-33	DIODE 1SS133T-77	
D552	8-719-991-33	DIODE 1SS133T-77	
D651	8-719-991-33	DIODE 1SS133T-77	
D951	8-719-510-68	DIODE D5SBA20F01	
D952	8-719-200-82	DIODE 11ES2	
D953	8-719-200-82	DIODE 11ES2	
D955	8-719-934-17	DIODE HZS27-1L	
D957	8-719-200-82	DIODE 11ES2	
D958	8-719-200-82	DIODE 11ES2	
D959	8-719-200-82	DIODE 11ES2	
D960	8-719-200-82	DIODE 11ES2	
D961	8-719-500-56	DIODE D3SBA20	
D971	8-719-200-82	DIODE 11ES2	
D972	8-719-200-82	DIODE 11ES2	
		< EARTH >	
* EB901	1-537-738-21	TERMINAL, EARTH	
* EB902	1-537-738-21	TERMINAL, EARTH	
* EB931	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC151	8-759-326-52	IC uPC2581V	
IC351	8-759-069-56	IC LM3875-Q	
IC451	8-759-069-56	IC LM3875-Q	
IC651	8-749-011-16	IC STK350-230	
		< COIL >	
L151	1-420-872-00	COIL, AIR-CORE	
L251	1-420-872-00	COIL, AIR-CORE	
L351	1-420-872-00	COIL, AIR-CORE	
L451	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q151	8-749-010-25	IC MN2488-OPY-M	
Q152	8-749-010-26	IC MP1620-OPY-M	
Q153	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q154	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q155	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q161	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q191	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q192	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q251	8-749-010-25	IC MN2488-OPY-M	
Q252	8-749-010-26	IC MP1620-OPY-M	
Q253	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q254	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q255	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q261	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q291	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q351	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q451	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q651	8-749-010-25	IC MN2488-OPY-M	
Q652	8-749-010-26	IC MP1620-OPY-M	
Q653	8-729-141-30	TRANSISTOR 2SC3623A-LK	

Ref. No.	Part No.	Description				Remarks
Q654	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q661	8-729-119-78	TRANSISTOR	2SC403SP-51			
Q670	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q921	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q954	8-729-141-83	TRANSISTOR	2SB1094-LK			
		< RESISTOR >				
R150	1-249-414-11	CARBON	560	5%	1/4W	F
R151	1-249-417-11	CARBON	1K	5%	1/4W	F
R152	1-249-439-11	CARBON	68K	5%	1/4W	
R153	1-249-413-11	CARBON	470	5%	1/4W	F
R154	1-249-439-11	CARBON	68K	5%	1/4W	
R155	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R156	1-249-437-11	CARBON	47K	5%	1/4W	
R157	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R158	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R159	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R160	1-217-151-00	METAL	0.22	10%	2W	
⚠R161	1-220-755-11	METAL	0.22	10%	2W	
R162	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R163	1-249-419-11	CARBON	1.5K	5%	1/4W	F
⚠R164	1-249-393-11	CARBON	10	5%	1/4W	F
R165	1-249-437-11	CARBON	47K	5%	1/4W	
R166	1-249-389-11	CARBON	4.7	5%	1/4W	F
R181	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R182	1-249-411-11	CARBON	330	5%	1/4W	
R186	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R187	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R189	1-249-393-11	CARBON	10	5%	1/4W	F
R190	1-249-417-11	CARBON	1K	5%	1/4W	F
R191	1-249-429-11	CARBON	10K	5%	1/4W	
R192	1-249-429-11	CARBON	10K	5%	1/4W	
R193	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R250	1-249-414-11	CARBON	560	5%	1/4W	F
R251	1-249-417-11	CARBON	1K	5%	1/4W	F
R252	1-249-439-11	CARBON	68K	5%	1/4W	
R253	1-249-413-11	CARBON	470	5%	1/4W	F
R254	1-249-439-11	CARBON	68K	5%	1/4W	
R255	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R256	1-249-437-11	CARBON	47K	5%	1/4W	
R257	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R258	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R259	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R260	1-220-755-11	METAL	0.22	10%	2W	
⚠R261	1-217-151-00	METAL	0.22	10%	2W	
R262	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R263	1-249-419-11	CARBON	1.5K	5%	1/4W	F
⚠R264	1-249-393-11	CARBON	10	5%	1/4W	F
R265	1-249-437-11	CARBON	47K	5%	1/4W	
R266	1-249-389-11	CARBON	4.7	5%	1/4W	F
R281	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R282	1-249-411-11	CARBON	330	5%	1/4W	
R286	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R287	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R289	1-249-393-11	CARBON	10	5%	1/4W	F
R351	1-249-417-11	CARBON	1K	5%	1/4W	F
R352	1-249-438-11	CARBON	56K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
R353	1-249-411-11	CARBON	330	5%	1/4W	
R354	1-249-438-11	CARBON	56K	5%	1/4W	
⚠R356	1-249-381-11	CARBON	1	5%	1/4W	F
R365	1-249-437-11	CARBON	47K	5%	1/4W	
R381	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R382	1-249-411-11	CARBON	330	5%	1/4W	
R385	1-249-389-11	CARBON	4.7	5%	1/4W	F
R389	1-249-393-11	CARBON	10	5%	1/4W	F
R451	1-249-417-11	CARBON	1K	5%	1/4W	F
R452	1-249-438-11	CARBON	56K	5%	1/4W	
R453	1-249-412-11	CARBON	390	5%	1/4W	F
R454	1-249-438-11	CARBON	56K	5%	1/4W	
⚠R456	1-249-381-11	CARBON	1	5%	1/4W	F
R465	1-249-437-11	CARBON	47K	5%	1/4W	
R480	1-249-437-11	CARBON	47K	5%	1/4W	
R481	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R482	1-249-411-11	CARBON	330	5%	1/4W	
R485	1-249-389-11	CARBON	4.7	5%	1/4W	F
R489	1-249-393-11	CARBON	10	5%	1/4W	F
R651	1-249-417-11	CARBON	1K	5%	1/4W	F
R652	1-249-438-11	CARBON	56K	5%	1/4W	
R653	1-249-417-11	CARBON	1K	5%	1/4W	F
R654	1-249-438-11	CARBON	56K	5%	1/4W	
R655	1-249-413-11	CARBON	470	5%	1/4W	F
⚠R657	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R658	1-249-393-11	CARBON	10	5%	1/4W	F
R660	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R661	1-249-437-11	CARBON	47K	5%	1/4W	
R663	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R664	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R665	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R666	1-217-151-00	METAL	0.22	10%	2W	
⚠R667	1-217-151-00	METAL	0.22	10%	2W	
⚠R668	1-249-393-11	CARBON	10	5%	1/4W	F
R670	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R671	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R675	1-249-437-11	CARBON	47K	5%	1/4W	
R681	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R682	1-249-411-11	CARBON	330	5%	1/4W	
R921	1-249-417-11	CARBON	1K	5%	1/4W	F
R923	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R924	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R925	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R926	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R956	1-217-637-00	FUSIBLE	1	5%	1/4W	F
⚠R957	1-217-637-00	FUSIBLE	1	5%	1/4W	F
R958	1-249-427-11	CARBON	6.8K	5%	1/4W	F
		< RELAY >				
RY151	1-515-920-11	RELAY (24V)				
RY251	1-755-142-11	RELAY				
RY351	1-515-920-11	RELAY (24V)				
RY451	1-755-026-11	RELAY				
RY651	1-515-920-11	RELAY (24V)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

POWER **PRIMARY** **SECONDARY** **TEN KEY**

Ref. No.	Part No.	Description	Remarks
		< TERMINAL >	
TM151	1-537-510-11	TERMINAL BOARD (FRONT/CENTER SPEAKER)	
TM351	1-537-510-11	TERMINAL BOARD (REAR/SUPER WOOFER SPEAKER)	
**********			
*	1-669-775-11	PRIMARY BOARD **********	
	1-533-293-11	FUSE HOLDER	
		< FUSE >	
⚠F902	1-532-388-31	FUSE TIME LAG 2A 250V	
⚠F903	1-532-504-31	FUSE TIME LAG 4A 250V (E)	
**********			
*	1-669-776-11	SECONDARY BOARD **********	
	1-533-293-11	FUSE HOLDER	
		< CAPACITOR >	
C999	1-164-159-21	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
* CN961	1-564-528-11	PLUG, CONNECTOR 13P	
		< FUSE >	
⚠F951	1-532-464-31	FUSE TIME LAG 2.5A 250V	
⚠F952	1-532-502-31	FUSE TIME LAG 1.25A 250V	
⚠F953	1-532-502-31	FUSE TIME LAG 1.25A 250V	
⚠F954	1-532-464-31	FUSE TIME LAG 2.5A 250V	
⚠F955	1-532-506-31	FUSE TIME LAG 6.3A 250V	
⚠F956	1-532-506-31	FUSE TIME LAG 6.3A 250V	
**********			
*	1-669-779-11	TEN KEY BOARD **********	
		< CONNECTOR >	
* CN702	1-565-295-11	PLUG, CONNECTOR 4P	
		< RESISTOR >	
R804	1-249-414-11	CARBON 560 5% 1/4W F	
R805	1-249-416-11	CARBON 820 5% 1/4W F	
R806	1-249-417-11	CARBON 1K 5% 1/4W F	
R807	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R808	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R809	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R810	1-249-424-11	CARBON 3.9K 5% 1/4W F	
R811	1-249-426-11	CARBON 5.6K 5% 1/4W	
R812	1-249-429-11	CARBON 10K 5% 1/4W	
		< SWITCH >	
S701	1-554-118-00	SWITCH, PUSH (1 KEY)(I/⏻)	
S705	1-554-303-21	SWITCH, TACTILE (9)	
S706	1-554-303-21	SWITCH, TACTILE (8)	
S707	1-554-303-21	SWITCH, TACTILE (7)	
S708	1-554-303-21	SWITCH, TACTILE (6)	
S709	1-554-303-21	SWITCH, TACTILE (5)	
S710	1-554-303-21	SWITCH, TACTILE (4)	
S711	1-554-303-21	SWITCH, TACTILE (3)	
S712	1-554-303-21	SWITCH, TACTILE (2)	
S713	1-554-303-21	SWITCH, TACTILE (1)	
**********			
		MISCELLANEOUS **********	
8	1-233-545-11	ENCAPSULATED COMPONENT (E,MY,SP,AUS)	
8	1-693-381-11	TUNER, FM/AM (AEP)	
⚠11	1-575-653-11	CORD, POWER (E)	
⚠11	1-690-608-11	CORD, POWER (AUS)	
⚠11	1-769-744-11	CORD, POWER (AEP,MY,SP)	
⚠12	1-569-007-11	ADAPTOR, CONVERSION 2P (E)	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)(DECK A)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)(DECK B)	
⚠J901	1-526-794-11	OUTLET, AC (EXCEPT E)	
⚠J901	1-526-882-00	OUTLET, AC (E)	
M1	A-2004-409-A	MOTOR ASSY, CAPSTAN	
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	
⚠T902	1-431-849-11	TRANSFORMER, POWER (AEP,MY,SP,AUS)	
⚠T902	1-431-850-11	TRANSFORMER, POWER (E)	
**********			
		ACCESSORIES & PACKING MATERIALS **********	
	1-475-747-11	REMOTE COMMANDER (RM-U581)	
	1-501-721-11	ANTENNA, LOOP	
	1-501-536-11	ANTENNA (FM)(AEP)	
	3-862-621-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH)	
	3-862-621-21	MANUAL, INSTRUCTION (GERMAN/FRENCH)(AEP)	
	3-862-621-31	MANUAL, INSTRUCTION (DUTCH/SWEDISH/ITALIAN)(AEP)	
	3-862-621-41	MANUAL, INSTRUCTION (CHINESE/ARABIC)(E,SP,MY)	
	4-981-643-01	COVER, BATTERY (FOR RM-U581)	
**********			
		********** HARDWARE LIST **********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-685-880-09	SCREW +BVTT 4X6 (S)	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#4	7-685-871-01	SCREW +BVTT 3X6 (S)	
#5	7-621-775-10	SCREW +B 2.6X4	
#7	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#8	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#9	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
#10	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#11	7-623-921-01	RING, RETAINING, CAPSTAN	
#12	7-621-775-00	SCREW +B 2.6X3	

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